



# Texas State University

2016-2017

## Graduate and Undergraduate Catalogs

TEXAS  STATE  
UNIVERSITY<sup>®</sup>

*The rising STAR of Texas*

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# UNDERGRADUATE

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## General Information

Texas State University offers bachelor's, master's, specialist, and doctoral degree programs in the colleges of Applied Arts (<http://www.txstate.edu/appliedarts>), McCoy College of Business Administration (<http://www.business.txstate.edu>), Education (<http://www.education.txstate.edu>), Fine Arts and Communication (<http://www.finearts.txstate.edu>), Health Professions (<http://www.health.txstate.edu>), Liberal Arts (<http://www.txstate.edu/liberalarts>), Science and Engineering (<http://www.txstate.edu/science>), University College (<http://www.txstate.edu/ucollege>) and The Graduate College (<http://www.gradcollege.txstate.edu>). As an Emerging Research University, Texas State offers opportunities for discovery and innovation to faculty and students.

Texas State's main campus is in San Marcos, a growing community of 58,000 people in the Austin Metropolitan Area. The Texas State University Round Rock Campus (<http://www.rrc.txstate.edu>) is located north of Austin. Students there can take upper-level courses leading to bachelor's degrees and complete master's degree and certificate programs.

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## Accreditations

### Texas State is accredited by the following

- AACSB International-The Association to Advance Collegiate Schools of Business
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- Accrediting Council on Education in Journalism and Mass Communications
- American Academy of Sleep Medicine
- American Bar Association, Council on the Section of Legal Education
- American Council for Construction Education
- American Physical Therapy Association, Commission on Accreditation in Physical Therapy Education
- American Society of Biochemistry and Molecular Biology
- American Speech-Language-Hearing Association, Council on Academic Accreditation in Audiology and Speech-Language Pathology
- American Psychological Association
- Association of University Programs in Health Administration
- Commission on Accreditation for Health Informatics and Information Management Education
- Commission on Accreditation for Respiratory Care
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- Commission on English Language Program Accreditation
- Concrete Industry Management
- Council for Accreditation of Counseling and Related Educational Programs
- Council for the Accreditation of Educator Preparation
- Council for Interior Design Accreditation
- Council on Social Work Education, Office of Social Work Accreditation, Commission on Accreditation
- Foundry Education Foundation
- International School Psychology Association
- Joint Review Committee on Education in Radiologic Technology
- National Accrediting Agency for Clinical Laboratory Sciences
- National Association for the Education of Young Children
- National Association of School Psychologists
- National Association of Schools of Music, Commission on Accreditation
- National Recreation and Park Association, Council on Accreditation of Parks, Recreation, Tourism, and Related Professions

- Network of Schools of Public Policy, Affairs, and Administration, Commission of Peer Review and Accreditation
- Teacher Education Accreditation Council, Inc.
- University Council for Educational Administration

## History of the University

Authorized by the Texas Legislature in 1899, Southwest Texas State Normal School opened its doors in 1903. During the first century, the Legislature retained the regional designation in the name, but as its mission changed it became first Normal College, then successively Teachers College, College and University. These changes reflected the change from a teacher-preparation institution to a regional university. In 2003 the Legislature dropped the regional designation and the institution became Texas State University-San Marcos, and in 2013 the place name itself was eliminated as the Legislature viewed Texas State University as an emerging research university within the State.

Texas State's original mission was to prepare Texas public school teachers, especially those of the south central area. It became renowned for carrying out this mission, but today it does far more. Texas State currently offers programs in the College of Applied Arts, Emmett and Miriam McCoy College of Business Administration, College of Education, College of Fine Arts and Communication, College of Health Professions, Honors College, College of Liberal Arts, College of Science and Engineering, and University College. The University College oversees undergraduate advising as well as the freshman year experience. The Graduate College provides opportunities for continued intellectual growth through advanced and specialized education that develops leaders in the professions and in research.

As Texas State's student population has grown – from 303 in 1903 to more than 37,000 in 2015 – the campus, too, has expanded and today Texas State is the sixth largest public university in the state. Overlooking the campus and serving as a landmark since 1903 is Old Main, a red-gabled Victorian building restored to its original grandeur.

In 1979, after adding a number of classroom buildings and residence halls, Texas State purchased the former San Marcos Baptist Academy adjacent to the original campus. In 1981, South Texas entrepreneur Harry M. Freeman donated a 3,500-acre ranch to Texas State to be held in perpetual trust as the Harold M. Freeman Educational Foundation. The working ranch is used as a laboratory for students in agriculture, animal science, biology and a variety of other academic disciplines. In 1990, the university opened the Albert B. Alkek Library. The building, conveniently located in the center of campus, is named for the noted Texas rancher, oil man and educational philanthropist who died in 1995.

Texas State acquired one of the most unique ecosystems in the world in 1994 when it purchased the former Aquarena Springs resort and theme park. The purchase allowed Texas State to serve as steward of the headwaters of the San Marcos River, preserving and protecting the area for future generations of Texans. Now called the Aquarena Center, the 90-acre property is the site of a wide variety of educational and research pursuits. Aquarena Center is home to several endangered species of plants and animals that exist nowhere else in the world.

In 1998, as the lead institution, Texas State joined forces with other area universities to establish the Round Rock Higher Education Center, now known as the Texas State University Round Rock Campus (RRC). The RRC, located on 101 acres in northeast Round Rock, offers upper-division and graduate educational opportunities in Williamson County and Austin.

Texas State is located in San Marcos, a Hill Country community about halfway between Austin and San Antonio. Its location on the banks of the San Marcos River provides recreational and leisure activities for students throughout the year.

Texas State became part of The Texas State University System in 1911. That System is governed by a nine-member Board of Regents. Other components in the System include Lamar University-Beaumont, Lamar University Institute of Technology, Lamar College-Orange, Lamar College-Port Arthur, Sam Houston State University and Sul Ross State University. The first president of Texas State was Mr. T.G. Harris, who served from 1903 to 1911. He was followed by Dr. C.E. Evans, 1911-1942; Dr. J.G. Flowers, 1942-1964; Dr. James H. McCrocklin, 1964-1969; Dr. Leland E. Derrick, 1969; Dr. Billy Mac Jones, 1969-1973; Mr. Jerome C. Cates, 1973-1974; Dr. Lee H. Smith, 1974-1981; Mr. Robert L. Hardesty, 1981-1988; Dr. Michael L. Abbott, 1988-1989; Dr. Jerome Supple, 1989-2002, and Dr. Denise M. Trauth, 2002-present.

## Mission Statement

“The noblest search is the search for excellence.”

—Lyndon B. Johnson

Thirty-Sixth President of the United States, 1963-1969  
Texas State University Class of 1930

Texas State University is a public, student-centered, Emerging Research University dedicated to excellence in serving the educational needs of the diverse population of Texas and the world beyond.

## Shared Values Statement

In pursuing our mission as a premier institution, we, the faculty, staff, and students of Texas State University, are guided by a shared collection of values. Specifically, we value:

- An exceptional undergraduate experience as the heart of what we do;
- Graduate education as a means of intellectual growth and professional development;
- A diversity of people and ideas, a spirit of inclusiveness, a global perspective, and a sense of community as essential conditions for campus life;
- The cultivation of character and the modeling of honesty, integrity, compassion, fairness, respect, and ethical behavior, both in the classroom and beyond;
- Engaged teaching and learning based in dialogue, student involvement, and the free exchange of ideas;
- Research, scholarship, and creative activity as fundamental sources of new knowledge and as expressions of the human spirit;
- A commitment to public service as a resource for personal, educational, cultural and economic development;
- Thoughtful reflection, collaboration, planning, and evaluation as essential for meeting the changing needs of those we serve.

## Multicultural Policy Statement

Texas State believes that freedom of thought, innovation and creativity are fundamental characteristics of a community of scholars. To promote such a learning environment, the university has a special responsibility to seek diversity, to instill a global perspective in its students, and to nurture sensitivity, tolerance and mutual respect. Discrimination against or harassment of individuals on the basis of race, color, national origin,

religion, sex, sexual orientation, age, or disability are inconsistent with the purposes of the university.

## Students' Rights, Privileges, and Expectations

Texas State believes that the primary purpose of higher education is to promote learning and stimulate inquiry for truth in an atmosphere of freedom. Texas State is committed to the value of a racial and ethnic diversity. Accordingly, Texas State encourages students to exercise the rights of citizenship. However, these rights are subject to reasonable limitations necessary for the orderly operation of Texas State. Texas State expects students to accept their responsibilities as citizens and members of a scholarly community. Paramount among these responsibilities is respect for the rights of others, academic and personal integrity, and adherence to federal, state, and local law as well as university regulations.

The faculty and administration are genuinely concerned with the physical and ethical welfare of students. To that end, Texas State has established rules of conduct and has published these in a Code of Student Conduct and Honor Code. These regulations guide students in achieving personal and academic goals and help the University function in an orderly way. Since students voluntarily associate themselves with Texas State, they should know that these rules are honestly and faithfully enforced. The rules include clear prohibitions against sexual or racial harassment.

Texas State has established a grievance procedure for the prompt and equitable resolution of complaints related to illegal discrimination or harassment on the basis of race, color, national origin, age, sex, religion, disability, or veterans' status. This grievance procedure is described in University Policy and Procedure Statement 04.04.46 (<http://www.txstate.edu/effective/Upps/Upps-04-04-46.html>), Prohibition of Discrimination or Harassment. Students should follow the procedures for reporting instances of discrimination or harassment.

The administration and faculty encourage students to participate in managing Texas State through its system of advisory councils and committees. Students are invited to serve as voting members of many of these groups, and are expected to contribute actively to their success. Students may submit recommendations for changes in policy, not only through the committee structure, but also through their own student government.

## Student Right-to-Know and Campus Security Act

The Student-Right-to-Know and Campus Security Act was enacted in 1990 by federal law. The law requires institutions that receive student aid assistance to prepare and distribute an Annual Security Report (Campus Watch). The Campus Watch for Texas State University at San Marcos and Round Rock campuses include descriptions of campus crime prevention programs, procedures for reporting crimes and information about the number and frequency of crimes reported to the University Police Department for the last three years. It also provides Texas State's policies for campus security and law enforcement related to sexual offenses, liquor law violations, and controlled substance offenses. In addition to publishing crime statistics, the act requires the Institute to provide timely warnings to the campus community of certain crimes reported to the University Police Department or local law enforcement which may be considered a threat to the campus community. The

Campus Watch is available on the Texas State Website at <http://www.police.txstate.edu/Clery.html>, in the Offices of Undergraduate Admissions, Graduate College, Human Resources, and the University Police Department.

For a hard copy of the Campus Watch, contact the University Police Department, Nueces Building or to have a hard copy mailed to you free of charge you may call 512-245-2890.

## Student Data, Privacy, and Communications

### Correct Data

All students are responsible for making certain Texas State has correct demographic data. A student's name will appear on official records as it is stated on the application for admission, unless a student has previously attended Texas State under a different name. Changes in name, local and/or permanent address, telephone number, marital status, etc. should be reported immediately to the Office of the University Registrar. Texas State is not responsible for loss of correspondence credits due to unreported name changes. Address changes can be submitted at <http://www.registrar.txstate.edu/our-services.html>.

### Family Educational Rights and Privacy Act of 1974 (FERPA)

FERPA protects the privacy of educational records, establishes the right of students to inspect and review their educational records, and provides guidelines for the correction of inaccurate or misleading data. Students also have the right to file complaints with the FERPA Office concerning alleged failures by Texas State to comply with the Act. University policy explains in detail the procedures to be used in complying with the act. The policy is available at <http://www.registrar.txstate.edu/persistent-links/ferpa>. The Dean of Students and the Registrar both presume that each student is independent of his or her parents when dealing with the student's educational records. Procedures for establishing dependency status are available in both offices.

### Communications

Most university offices use Texas State email as the official means of communication. Students are expected to set up and read their Texas State email frequently.

## Abandoned and Unclaimed Personal Property

Abandoned and unclaimed personal property discovered on a system university campus shall be turned over to the University Police Department for safekeeping and standardized handling. Property shall be considered abandoned if it appears from the circumstances under which the University comes into possession of the property that the owner has thrown it away, has voluntarily left it, or has lost it without any intent or expectation to regain it.

Abandoned and unclaimed personal property acquired by the police department of a system university shall be held for a minimum of one hundred and twenty (120) days from the time the department acquires the property. If the property is reclaimed during that time, the University may charge the owner a reasonable storage fee. The University Police Department will develop appropriate procedures to facilitate the return

of unclaimed personal property to the proper owners. A reasonable effort will be made to notify the owner.

After one hundred and twenty (120) days the property will be declared abandoned. After appropriate property checks that reflect the value of the property have been made, the property may be sold as part of a normal surplus property sale. For specifics on the handling and processing of abandoned and unclaimed property, please refer to University Policy and Procedure Statement 05.01.20.

## Undergraduate Academic Advising

### Academic Advising

Academic advising is a student-centered, collaborative process that engages students in educational planning to promote academic, personal, and professional development, while considering diverse interests, abilities, and goals. Academic advising is an integral part of teaching and learning at Texas State.

### Definition and Philosophy

Academic advising is an educational process that, by intention and design, facilitates students' understanding of the meaning and purpose of higher education and fosters their intellectual and personal development toward academic success and lifelong learning (NACADA, 2004).

At Texas State, academic advising provides students with the opportunity to meet with an advisor for the purpose of gaining assistance in planning their educational careers, in developing the skills needed for academic success, and in learning how to access the variety of resources and services available to them on the Texas State campus.

Academic advisors at Texas State University adhere to the standards and guidelines published in "CAS Professional Standards for Higher Education" by the Council for the Advancement of Standards in Higher Education (CAS). Their membership in the National Academic Advising Association (NACADA) provides professional guidance in their advising philosophies.

Academic advising is a partnership between a student and an academic advisor to develop meaningful educational goals and plans that are consistent with the student's personal values, interests and abilities. This is a collaborative approach in which the student and the advisor have clear responsibilities for ensuring that the advising partnership is successful.

Professional academic advisors are located in each college and are available to assist students throughout the year. Technological tools such as the Degree Audit System provide additional resources to assist students in defining the path to graduation.

Students may visit <http://www.registrar.txstate.edu/resources/degreeworks.html> for more information about degree audits and a video tutorial.

### Advisee Responsibilities – Your Role as an Advisee

As an advisee, you have clear responsibilities in the advising partnership in order to be successful:

- Clarify personal values and goals.



- Provide your advisor with accurate information regarding your interests and abilities.
- Schedule timely, regular appointments with an advisor during each semester.
- Come prepared, with your student ID, and be on time to each appointment.
- Bring questions and materials for discussion, such as a degree audit, degree worksheet, and/or other relevant documents, to your appointment.
- Be an active learner by participating fully in the advising experience, asking questions if you do not understand an issue or have a specific concern.
- Know the requirements of your degree program and make sure that you are taking the courses your program requires for graduation.
- Gather all relevant decision-making information (e.g., deadlines, prerequisites, policies).
- Organize official documents in a way that enables you to access them when needed.
- Follow through with all recommendations from your advisor.
- Keep a personal record of your progress toward meeting your goals.
- Comply with all university and college policies, procedures, and deadlines.
- Adhere to the Texas State honor code when interacting with others.

## Advisor Responsibilities – Our Role as Advisors

You can expect your advisor to:

- Be accessible for meeting with you.
- Assist you in understanding the purposes and goals of higher education and its effect on your life and personal goals.
- Assist you in gaining decision-making skills and assuming responsibility for your educational plans and achievements.
- Encourage and guide you as you define and develop realistic goals.
- Understand and effectively communicate the curriculum, graduation requirements, and university and college policies and procedures.
- Provide you with information and strategies for using available campus resources and services.
- Encourage and support you as you gain the skills to develop clear and attainable educational plans.
- Accurately document your progress toward meeting your goals.
- Maintain confidentiality pursuant to FERPA.

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**Locate your academic advisor and other student resources at <http://advising.txstate.edu/>.**

## Using the Undergraduate Catalog

### Glossary of Terms

#### Academic Advising Center

Located in each College, the Academic Advising Center houses most of the undergraduate advisors for that College.

### Classification

Academic level based on hours earned: 1–29 freshman, 30–59 sophomore, 60–89 junior, and 90+ senior.

### Contact Hours

Clock hours spent each week in the instruction process. Contact hours are not course credit hours. Lecture contact hours are the hours per week students are required to spend in contact with faculty in a lecture setting, e.g., class, conference, seminar, individual instruction, private lesson, thesis or dissertation discussion, or independent study. Laboratory contact hours are the number of hours per week that students are required to spend in contact with faculty in an experiential situation, e.g., laboratory clinical, practicum, internship, or student teaching.

### Core Curriculum

Serves as the common foundation for all majors and accounts for about 35 percent of the approximately 120 semester credit hours required for a bachelor's degree. See the Academic Services section of the catalog for more detailed information.

### Co-requisite

A directive from a School or Department that requires a certain action be taken while enrolled in a certain course. A corequisite may be a course, permission from a faculty member, a specified classification, or additional requirements as determined by the faculty.

### Course Description

Summarizes the content of the course. May include repeatability information as well as pre-requisites or co-requisites.

### Course Number

Courses listed in this catalog and in the Schedule of Classes follow a four-digit numbering system. The first digit indicates the level of the course: 1-freshman, 2-sophomore, 3-junior, 4-senior, 5- and 6-masters, and 7-doctoral. The second digit indicates the number of semester credit hours. The last two digits usually indicate the sequencing of the course in the curriculum. The letter (A, B, C, etc.) at the end of a course number usually indicates a topics course.

### Course Prefix

Letters preceding the course number that indicate the subject of the course. For example, CJ = Criminal Justice; ANTH = Anthropology.

### Credit Hour

For purposes of this catalog and in accord with federal regulations, a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

- not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time;
- at least an equivalent amount of work as outlined in the item above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

A semester credit hour is defined by THECB as a unit of measure of instruction consisting of 60 minutes, of which 50 minutes must be direct



instruction over a 15-week period in a semester system. Credit hours must be presented in whole numbers. Academic administrative units are responsible for ensuring that credit hours are awarded only for work that meets this requirement. Students should expect to invest a minimum of two hours of additional work for each hour of classroom or faculty instruction per week. Additional work often includes reading, studying, writing, conducting research, meeting with tutors, and other learning activities.

## Degree Audit

An advising report, through Degree Works, that shows a student's progress towards their degree. Students can request a degree audit report through the Self Service Banner for the degree program(s) in which they are enrolled or for degree programs in which they are interested. Visit <http://www.registrar.txstate.edu/resources/degreeworks.html> for more information and a video tutorial or contact your academic advisor.

## Degree Plan

Set of courses that a student may follow in order to achieve the desired bachelor's degree.

## Grade Point Average (GPA)

Texas State utilizes a four-point system. The GPA is the total number of grade points earned divided by the number of semester hours attempted. Semester grade symbols have the following values: "A" = 4 points; "B" = 3 points; "C" = 2 points; "D" = 1 point; "F" = 0 points. Neither hours nor grades are calculated for "I", "CR", "PR", or "W". "U" and "N" grades are the same as an "F" and equal 0 points.

## Graduate Student

A student who has graduated with a bachelor's degree and is returning to the university to pursue either a master's or doctoral level degree.

## Graduation with Honors

Students earning a GPA of 3.40-3.59 will graduate cum laude; 3.6-3.79 will graduate magna cum laude; 3.8-4.0 will graduate summa cum laude. Effective Summer 2012, to be eligible for graduation with honors a student seeking a baccalaureate degree must have completed a minimum of 54 semester credit hours preceding graduation at Texas State. Graduation in the Honors College is described on p. 47.

## Multicultural Course

Course identified in the catalog and schedule of classes that offers students an opportunity to enhance their multicultural competence.

## Post Baccalaureate Student

Student who has completed a bachelor's degree and returned to the university to take additional course work that will not count towards a second bachelor's degree.

## Prerequisite

A directive from a School or Department that requires a certain action be taken before enrolling in a certain course. A prerequisite may be a course, permission from a faculty member, a specified classification, or additional requirements as determined by the faculty.

## Probation, Academic

An emphatic warning that the quality of the student's work has not met Texas State's minimum academic standards and that the quality must improve during the probationary semester in order for the student to continue at Texas State. A student will be placed on academic probation

at the end of the fall or spring semester in which the Texas State GPA is less than 2.00. A student will be removed from academic probation at the end of any long semester or summer term if the Texas State GPA is 2.00 or higher.

## Second Degree Seeking Student

Student who has completed a bachelor's degree and returned to the university with the intention to take additional course work that will complete a second baccalaureate degree.

## SLAC

The Student Learning Assistance Center provides a wide range of academic support programs. Whether students are seeking help with course content, study skills, or test preparation, SLAC provides a walk-in tutoring lab, Supplemental Instruction, campus presentations, and online services.

## Suspension, Academic

Instated on students who fail to raise their GPA higher than a 2.00 at the end of the second probationary semester.

## Transcript

Official Texas State transcripts bear the University Seal and the Registrar's signature. The transcript is an official record of a student's academic course work.

## Transfer Student

Student who has attended an institution prior to enrollment at Texas State.

## TSIP

The Texas Success Initiative program is a legislatively mandated program for certain college freshmen and transfer students, and is located within the University College. Additional information about this program and its requirements can be found in the University College section of this catalog.

## Undergraduate Student

Student enrolled in course work with the intent of receiving a bachelor's degree at Texas State.

## Writing Intensive

Undergraduate courses for which at least sixty five percent of the grade must be based on written exams or assignments, and at least one assignment must be 500 words or more in length. Writing intensive is a designation intended to address the writing policy for undergraduate degree programs.

## How to Interpret a Course Entry in the Catalog

Academic courses are located alphabetically by course prefix within the school or department in which they are taught. Within each prefix, the courses are listed numerically beginning with freshman level and proceeding through senior level course work. Graduate courses may be found in the Graduate Catalog.

Texas State reserves the right to withdraw courses at any time, to change its fees or tuition, calendar, curriculum, degree requirements, graduation procedures, and any other requirements affecting students. Changes will become effective whenever authorities determine and will apply to both

prospective students and those already enrolled. Questions regarding current information should be addressed to the Office of the Provost and Vice President for Academic Affairs.

## Undergraduate Admissions

429 N. Guadalupe Street  
www.admissions.txstate.edu (<http://www.admissions.txstate.edu>)  
T: 512.245.2364 F: 512.245.8044

Texas State University offers general admission programs for first-time freshman, transfer, and international students. Admission standards are designed to ensure that admitted students are prepared to meet the academic challenges of the classroom at Texas State.

Students and their parents are invited to visit campus any day the university is open. Drop-in visitors are welcome but it is recommended that all visitors reserve their place in a tour by means of our online reservation system (<http://www.admissions.txstate.edu/visit/campus-tours.html>) or a phone call a few days in advance. Campus tours are available Monday through Friday when classes are in session. Although university offices are closed on weekends, the Welcome Center is open on a limited basis on weekends during the fall and spring semesters. The Welcome Center is located in the LBJ Student Center. Convenient parking is available at the adjacent Student Center Parking Garage.

Bobcat Days at Texas State are Saturday visitation events for the purpose of enabling prospective students and their families visit the campus to learn about academic programs, services, activities, and admissions. Visit the admission web site for Bobcat Days (<http://www.admissions.txstate.edu/visit/bobcat-days.html>) dates, schedule of events and registration options.

For further information on available tour times or scheduling your visit, contact the Welcome Center (<http://www.admissions.txstate.edu/visit>) at 512.245.8871 or email [welcomecenter@txstate.edu](mailto:welcomecenter@txstate.edu) ([welcomecenter@txstate.edu](mailto:welcomecenter@txstate.edu)).

## Priority Dates and Deadlines

Prospective undergraduate students should apply for admission as early as possible. Those still in high school may apply once they have completed six semesters and can provide a high school transcript showing class rank and grades. College transfer students should do so after they have successfully completed 30 hours or more of transfer credit. The application for admission and all supporting documents must be received by the following priority dates or deadlines:

### Summer 2016

Student Type	Application Becomes Available on	Submit Application and All Credentials by
Freshman	August 1, 2015	March 1, 2016
International Freshman	August 1, 2015	March 1, 2016
Transfers/ Non-Degree Seeking	August 1, 2015	May 1, 2016
International Transfer	August 1, 2015	May 1, 2016
Returning (Readmit)	August 1, 2015	May 1, 2016
Visiting (Transient)	August 1, 2015	May 1, 2016

### Fall 2016

Student Type	Application Becomes Available on	Submit Application and All Credentials by
Freshman	August 1, 2015	March 1, 2016
International Freshman	August 1, 2015	March 1, 2016
Transfer/ Non-Degree Seeking	August 1, 2015	July 15, 2016
International Transfer	August 1, 2015	July 15, 2016
Returning (Readmit)	August 1, 2015	August 1, 2016

### Spring 2017

Student Type	Application Becomes Available on	Submit Application and All Credentials by
Freshman	January 12, 2016	November 15, 2016
International Freshman	January 12, 2016	November 15, 2016
Transfer/ Non-Degree Seeking	January 12, 2016	November 15, 2016
International Transfer	January 12, 2016	November 15, 2016
Returning (Readmit)	January 12, 2016	December 1, 2016

Applications received after the Priority Date will be considered on a space-available basis. For information on pursuing a Second Bachelor's degree [click here](http://www.admissions.txstate.edu/future/admission-categories.html) (<http://www.admissions.txstate.edu/future/admission-categories.html>).

## Freshman Admission

### State of Texas Uniform Admission Standards

Per state law, TEC 51.803-51.809, Uniform Admissions Standards (UAS) requires applicants to four-year public universities to meet college readiness standards by means of completion of a high school graduation program or equivalent or SAT or ACT score benchmarks.

### Assured Admission

Assured Admission is granted when the student graduates with one of the following diploma types: Distinguished, Recommended or Distinguished Achievement high school program (or equivalent), and ranks in the top 10% of their class or meets the SAT/ACT requirements listed below.

Class Rank	SAT (Critical Reasoning + Math)	
Top 10%	No minimum required <sup>1</sup>	No minimum required <sup>1</sup>
1st Quartile	920	20
2nd Quartile	1010	22
3rd Quartile	1180	26
4th Quartile	1270	29

<sup>1</sup> Although no minimum scores are required, you still must submit your SAT/ACT scores.

The SAT score is the sum of the critical reading and math sections only. The ACT score is your composite score. An SAT/ACT writing section score is recommended.

Students applying for admission should present the following curriculum:  
**English** (four credits): English I, II, III, and IV

**Math** (four credits): Algebra I and II, Geometry, and Advanced Math

**Science** (four credits): Biology, Chemistry, Physics, and Advanced Science

**Social Studies** (four credits): World History, World Geography, U.S. History Since 1877, U.S. Government (.5 Credit), U.S. Economics (.5 Credit)

**Foreign Language** (two credits)

Other curriculum requirements include one credit of **Fine Arts** and one **Physical Education**.

## Admission Review

Applicants who rank in the top 75 percent of their high school graduating class, and their class rank and test scores place them near the assured admission requirements, may be eligible for Texas State's holistic review process. Those who rank in the top three quartiles of their class and earn one of the following diploma types – Distinguished, Recommended, Distinguished Achievement, Foundation with Endorsements and recommended math and science courses, or Foundation with recommended math and science courses – but do not meet the SAT/ACT scores listed in this section, will undergo a holistic review of their admission file. This review (<http://www.admissions.txstate.edu/future/freshman/admissions-requirements/pas-review.html>) considers the competitive level of courses taken and grades earned, the admission essay(s), extracurricular involvement including community service, leadership, and work experience. Spaces fill quickly and applications will be reviewed in the order they are received.

The Office of Undergraduate Admission strongly encourage anyone who is not offered freshman admission to attend another college, complete 30 hours of transferable credit with a minimum GPA of a 2.25, and apply for transfer admission. A limited number of fall applicants who are reviewed through PAS may be offered admission to a special summer entrance program or a fall co-enrollment program with Austin Community College

## Pathway Program

The Pathway program (<http://www.admissions.txstate.edu/pathway>) is a unique one-year co-enrollment partnership between Texas State University and Austin Community College (ACC). As a participant in the program, the student enrolls for courses at Texas State each semester and at ACC Hays. Acceptance into the program is by invitation and is based on the university's Predicted Academic Success review process. A limited number of fall applicants will be offered a place in this alternative program based on the outcome of the holistic review

## Limited Access Program

### Emmett and Miriam McCoy College of Business Administration

Admission to the McCoy College of Business Administration (<http://www.admissions.txstate.edu/future/limited-access.html>) is highly competitive. Students who wish to pursue a major in the McCoy College are required to meet admission standards more rigorous than those

for non-business applicants. Interested students will automatically be admitted when they:

- Select Business as a first-choice major and receive assured admission to Texas State
- Achieves one of the following: an SAT score of 1200 or higher, an ACT score of 27 or higher, or a ranking in the top 25 percent of their high school graduating class.

Other applicants who have received admission to Texas State will be considered through a competitive review process.

## Application Procedures and Fee

Texas State admits first-time freshmen in one of two ways, either Assured Admission or Admission Review. Applicants for freshman admission must meet the following requirements to be considered for admission:

1. Complete the State of Texas Foundation (HB5), Foundation with Endorsements (HB5), Distinguished Achievement (HB5), Minimum (HB5), Recommended (UAP) or Distinguished (UAP) high school program (or their equivalents).

NOTE: To be successful at Texas State, students should successfully complete a rigorous curriculum in high school. Texas State recommends that all applicants complete four credits of English, including English I-IV; four credits of math, including Algebra I, Algebra II, Geometry, and an additional advanced math; four credits of science, including Biology, Chemistry, Physics, and an additional advanced science; four credits of social studies, including one credit of World History, World Geography, U.S. History Since 1877, 1/2 credit of U.S. Government and 1/2 credit of Economics; two credits of a foreign language; one credit of fine arts; and one credit of Physical Education.

1. Submit parts I and II of the ApplyTexas Application (<http://www.applytexas.org>).
2. Submit one of the ApplyTexas application essays (Topic A, B, or C).
3. Submit an official high school transcript (which must include class rank or a statement that the school does not rank) or GED certificate.
4. Submit official SAT or ACT scores including the writing sections.
5. Submit an application fee of \$75 (check, money order, American Express, Visa or MasterCard). Waivers are available for eligible students.
6. Submit an official college transcript from each postsecondary school attended. Students must be eligible to return (e.g., free of suspension, dismissal or enforced withdraw) and have a cumulative 2.0 grade point average in all transferable college work.

## State of Texas Uniform Admission Statement

Per state law, TEC 51.803-51.809, Uniform Admissions Standards (UAS) requires applicants to four-year public universities to meet college readiness standards through completion of a high school graduation program or equivalent or through SAT or ACT score benchmarks.

## Applicants from Non-Ranking Schools

### Nontraditional Secondary Education: GED and Homeschool Applicants

In accordance with Senate Bill 1543 (SB1543), applicants for admission who present evidence of completion of a nontraditional secondary education without an official class rank will have a class rank assigned by Texas State. The class rank will be comparable to the average class rank of other applicants who have equivalent ACT or SAT scores. A nontraditional secondary education includes Homeschool and GED graduates. Texas State requires an official homeschool or GED transcript to demonstrate evidence of completion.

### Non-Ranking Public and Private High Schools

Applicants from non-ranking public or private schools must meet the freshman requirements outlined above and will be considered for admission based on an individual review by the Office of Undergraduate Admission. This review will take into account ACT or SAT scores, curriculum and grades, admission essay, employment and service to community. For admission purposes, a class rank will be assigned by Texas State in accordance with SB 1543 referenced above.

For more information regarding the admission process for applicants from non-ranking schools or other educational programs, contact the Office of Undergraduate Admission.

## Transfer Admission

### Transfer Students with Fewer than 30 Hours

Students with fewer than 30 hours (<http://www.admissions.txstate.edu/future/transfer/how-to-apply-1-29.html>) at the time of application will be evaluated based on a combination of high school and college work. Applicants must meet the following requirements:

1. Submit the ApplyTexas Transfer Student application, Parts I and II, along with one essay, an official high school transcript, and a resume of activities by the deadline.
2. Send your ACT or SAT scores to Texas State. Our ACT code number is 4178 and SAT I code number is 6667. Texas State accepts the highest composite score from a single test date.
3. Submit an official college transcript from each post-secondary institution attended. Students must be eligible to return (e.g., free of suspension, dismissal or enforced withdrawal) to all previous institutions attended regardless of grade point average (GPA) or degree received.
4. Submit a non-refundable application fee of \$75 (check, money order, American Express, VISA, or Mastercard) or apply for a fee waiver.
5. Present a cumulative GPA of at least 2.0 in all transferable course work.

### Transfer Students with 30 Hours or More

Students with 30-plus transferable credit hours (<http://www.admissions.txstate.edu/future/transfer/how-to-apply-30plus.html>)

must meet the 2.25 grade point average (GPA) on all transferable credit. Transfer applicants must meet the following requirements:

1. Submit Part I of the ApplyTexas application for either Transfer, Readmit, or Transient students by the deadline.
2. Submit an official college transcript from each post-secondary institution attended. Students must be eligible to return (e.g., free of suspension, dismissal or enforced withdrawal) to all previous institutions attended regardless of grade point average or degree received.
3. Submit an official high school transcript
4. Submit a non-refundable application fee of \$75 (check, money order, American Express, VISA, or Mastercard) or apply for a fee waiver.
5. Present a cumulative GPA of at least 2.25 in all transferable work (unless applying to the McCoy College of Business Administration (<http://www.admissions.txstate.edu/future/limited-access.html>)).

In calculating the GPA, grades of A, B, C, D, and F are counted. Non-punitive grades such as W or WP are posted but not calculated. Grades of WF or I are averaged as F. If a course has been repeated, every grade except the first will be calculated. Grades in non-transferable and technical/VocEd courses are disregarded. See the Academic Policies section for more on repeated grades and courses. To see what course credits will transfer, visit our Transfer Course Equivalency System (<http://www.admissions.txstate.edu/future/transfer/equivalency-guides.html>).

## High School Transcript Requirement

As of fall semester 2015, Texas State requires undergraduate applicants to submit all official transcripts, including high school and/or college or university, to the Office of Undergraduate Admissions. This policy extends to all undergraduate applicants including transfer, returning students and military veterans. Contact your high school and previous colleges to learn how to request official transcripts. In most cases, transcripts can be sent directly to Texas State.

## Transfer Credit

### Evaluation of Transfer Credit

Transfer of credit from another institution to Texas State involves consideration of accreditation, comparability of course work and applicability of that course work to a Texas State degree program. The Office of Undergraduate Admissions provides, along with the admission notification letter, an evaluated transfer work that shows how each course that the student has completed has been evaluated for transfer to Texas State.

## Regional Accreditation

Texas State will consider for transfer credit (subject to other provisions outlined below) course work completed at institutions which have been granted membership or candidacy status in a regional association of the Association of Colleges and Schools, excluding accrediting commissions for vocational or occupational training.

## No Regional Accreditation

Course work from an institution which is neither regionally accredited nor a candidate for such accreditation will not be recognized for transfer purposes. Student appeals may be reviewed on an individual basis.



## Bible College Accreditation

Courses from institutions accredited solely by ABHE (Association for Biblical Higher Education) are awarded transfer credit on a parallel course by course basis. Remedial courses are nontransferable. Religious courses of a doctrinal or denominational character (sacraments, Christian approaches to missions, etc.) are not transferable.

## Credit from Abroad

Course work completed at foreign institutions will be evaluated on an individual basis. Foreign institutions must be officially recognized by their Ministry of Education for transfer credit to be considered.

## Role of the Office of Undergraduate Admissions in Determining Transfer Credit

The Office of Undergraduate Admissions reviews each course taken at another college or university and makes the initial determination of whether or not a course is transferable. The course is evaluated for transfer credit by comparing the nature, content, and level of transfer credit and in consultation with appropriate academic units at Texas State. Courses transfer to Texas State on the same level and with the corresponding grades and number of hours as earned at the other institution. It is sometimes necessary for the transfer student to provide such materials as catalogs, course descriptions, syllabi, class assignments, or textbooks to assure proper evaluation. The holding of an associate degree from another institution has no effect on the transfer of credit or admission to Texas State.

## Role of University College

The University College will review student requests for review of elective courses (ELNA, ELADV) for application to the general education core curriculum.

## Role of College Dean and Program Chair/ Department Chair/School Director of Student's Major

The applicability of transferred credit toward a degree at Texas State will be the decision of the college dean and the chair/director of the student's major department/school/program. The applicability of transferred credit will be evaluated on a course-by-course basis.

Explanation of Evaluation Symbols. Admissions personnel assign evaluation symbols to all courses submitted.

1. Courses that have direct Texas State course equivalency will be equated to the Texas State course number and be reflected accordingly on the evaluated transcript record.
2. Courses that hold transfer credit value, but which do not have an exact Texas State course equivalency, will transfer as elective courses. Elective courses will be recorded as ELNA (for lower-level freshman and sophomore courses) and ELADV (for upper-level junior and senior courses). Courses transferred at the lower-level cannot be equated as upper-level courses. The college dean and the chair/director of the student's major department/school/program will determine how these elective courses apply toward the student's degree.
3. Courses evaluated as Vocational Education (VocEd) are not transferable and are not computed in the GPA for admission purposes. In cases where VocEd courses support a student's degree

program, the student may request the chair/director of his/her major department/school/program to review the courses. If approved, the VocEd credit will be recorded on the student's official Texas State transcript for application to that degree program. Should the student's major change, the applicability of the VocEd credit toward the new major will be subject to review by the chair/director of the student's new major department/school/program.

4. Courses that hold no transfer value for either admission or degree purposes are evaluated as Non-Transferable (NOCRD). Generally, these are courses that are remedial, preparatory, or developmental in nature.
5. Physical fitness activity courses are evaluated as Activity (ACT). These are transferable for admission and degree purposes.

## Course Equivalency Information

Course equivalency information may be obtained from the junior/community college counselor, the Texas State Office of Undergraduate Admissions or through CatsWeb on the Texas State web site ([www.txstate.edu](http://www.txstate.edu) (<http://www.txstate.edu>)). Students are encouraged to plan all course selections at the junior/community college as far in advance as possible. Proper planning and use of the equivalency information will maximize the transfer of credit to Texas State.

## Texas Junior/Community College Transfer Students

Prior to transferring from a Texas junior/community college, students should discuss their course selections and degree plans with their two-year college counselor or academic advisor.

## Articulation Agreements and Transfer Planning Guides

Texas State has formal articulation agreements and/or transfer planning guides with Alvin Community College, Amarillo College, Austin Community College, Blinn College, Brazosport College Central Texas College, Cisco Jr. College, Coastal Bend College, Collin County Community College, Dallas County Community College District, El Paso Community College, Frank Philips College, Houston Community College, Kilgore College, Laredo Community College, Lone Star College, McLennan Community College, Midland College, Northeast Lakeview College, Northwest Vista, Odessa College, Palo Alto College, Paris Jr. College, San Antonio College, San Jacinto College, South Plains College, South Texas College, Southwest Texas Junior College, St. Philips College, Tarrant Community College, Temple College, Western Texas College, Wharton Jr. College and Victoria College. Transfer planning guides have been developed for many programs in these community colleges and for many additional programs in other community colleges. Potential transfer students may access existing transfer planning guides at [www.admissions.txstate.edu/future/transfer/tpg.html](http://www.admissions.txstate.edu/future/transfer/tpg.html) (<http://www.admissions.txstate.edu/future/transfer/tpg.html>).

## Texas Common Course Numbering

Under Texas Education Code 61.832, the Texas Common Course Numbering System (TCCNS) was developed to facilitate transfer of general academic courses between Texas public institutions. Common courses are included in the Community College General Academic Course Guide Manual, published by the Texas Higher Education Coordinating Board. Common course numbers may be used to determine how





DRAM 1351	TH 1364	JAPN 2312	JAPA 2320
DRAM 1352	TH 1365	MATH 1314 *	MATH 1315
DRAM 2336	TH 1340	MATH 1316 *	MATH 1317
DRAM 2351	TH 2354	MATH 1324 *	MATH 1319
ECON 1301	ECO 2301	MATH 1325 *	MATH 1329
ECON 1303	CA 1341	MATH 1332 *	MATH 1316
ECON 2301	ECO 2315	MATH 1342 *	MATH 1312
ECON 2302 *	ECO 2314	MATH 1350	MATH 2311
ENGL 1301 *	ENG 1310	MATH 1351	MATH 2312
ENGL 1302	ENG 1320	MATH 1342	MATH 2328
ENGL 2322 *	ENG 2310	MATH 2305	MATH 2358
ENGL 2323 *	ENG 2320	MATH 2313 *	MATH 2321
ENGL 2327 *	ENG 2359	MATH 1342	MATH 2328
ENGL 2328 *	ENG 2360	MATH 2412 *	MATH 2417
ENGL 2332 *	ENG 2330	MATH 2413 *	MATH 2471
ENGL 2333 *	ENG 2340	MATH 2414	MATH 2472
ENGR 2305	TECH 2370	MUSI 1104	MU 2123
FREN 1411	FR 1410	MUSI 1211	MU 1211
FREN 1412	FR 1420	MUSI 1212	MU 1213
FREN 2311	FR 2310	MUSI 1216	MU 1210
FREN 2312	FR 2320	MUSI 1217	MU 1212
GEOG 1302	GEO 1309	MUSI 1301	MU 1312
GEOG 1303 *	GEO 1310	MUSI 1303	MU 2310
GEOL 1147	GEO 1105	MUSI 1307	MU 2303
GEOL 1347 *	GEO 1305	MUSI 2160	MU 2141
GEOL 1403 *	GEOL 1410	MUSI 2211	MU 2261
GEOL 1404 *	GEOL 1420	MUSI 2212	MU 2263
GERM 1411	GER 1410	MUSI 2216	MU 2260
GERM 1412	GER 1420	MUSI 2217	MU 2262
GERM 2311	GER 2310	PHED 1164	PFW 1101
GERM 2312	GER 2320	PHED 1164	PFW 1110A
GOVT 2305 *	POSI 2320	PHED 1164	PFW 1110B
GOVT 2306 *	POSI 2310	PHED 1164	PFW 1110C
HECO 1320	FM 1332	PHED 1164	PFW 1110D
HECO 2311	FM 1330	PHED 1164	PFW 1110E
HIST 1301 *	HIST 1310	PHED 1164	PFW 1110F
HIST 1302 *	HIST 1320	PHED 1164	PFW 1110G
HIST 2311	HIST 2310	PHED 1164	PFW 1110H
HIST 2312	HIST 2320	PHED 1164	PFW 1110K
HIST 2321	HIST 2311	PHED 1164	PFW 1125A
HIST 2322	HIST 2312	PHED 1164	PFW 1130A
HUMA 1315 *	ART 2313	PHED 1164	PFW 1130B
HUMA 1315 *	DAN 2313	PHED 1164	PFW 1135A
HUMA 1315 *	MU 2313	PHED 1164	PFW 1135B
HUMA 1315 *	TH 2313	PHED 1164	PFW 1140A
ITAL 1411	ITAL 1410	PHED 1164	PFW 1140B
ITAL 1412	ITAL 1420	PHED 1164	PFW 1140C
ITAL 2311	ITAL 2310	PHED 1164	PFW 1140D
ITAL 2312	ITAL 2320	PHED 1164	PFW 1140E
JAPN 1411	JAPA 1410	PHED 1164	PFW 1140F
JAPN 1412	JAPA 1420	PHED 1164	PFW 1140G
JAPN 2311	JAPA 2310	PHED 1164	PFW 1140H

PHED 1164	PFW 1140I	PHYS 2425 *	PHYS 1430
PHED 1164	PFW 1149	PHYS 2426 *	PHYS 2425
PHED 1164	PFW 1150B	PHYS 2427	PHYS 2435
PHED 1164	PFW 1150C	PORT 1411	POR 1410
PHED 1164	PFW 1150D	PORT 1412	POR 1420
PHED 1164	PFW 1150E	PORT 2311	POR 2310
PHED 1164	PFW 1150F	PORT 2312	POR 2320
PHED 1164	PFW 1150G	PSYC 2301 *	PSY 1300
PHED 1164	PFW 1154	PSYC 2317	PSY 2301
PHED 1164	PFW 1154B	PSYC 2306	PSY 2311
PHED 1164	PFW 1154C	SGNL 1401	ASL 1410
PHED 1164	PFW 1155A	SGNL 1402	ASL 1420
PHED 1164	PFW 1155B	SGNL 2301	ASL 2310
PHED 1164	PFW 1155C	SGNL 2302	ASL 2320
PHED 1164	PFW 1155D	SOCI 1301 *	SOCI 1310
PHED 1164	PFW 1155E	SOCI 1306	SOCI 2320
PHED 1164	PFW 1155G	SOCW 2361	SOWK 1350
PHED 1164	PFW 1155H	SPAN 1411	SPAN 1410
PHED 1164	PFW 1155I	SPAN 1412	SPAN 1420
PHED 1164	PFW 1155J	SPAN 2311	SPAN 2310
PHED 1164	PFW 1155K	SPAN 2312	SPAN 2320
PHED 1164	PFW 1155M	SPCH 1144	COMM 2111
PHED 1164	PFW 1155N	SPCH 1311 *	COMM 1310
PHED 1164	PFW 1160B	SPCH 1315	COMM 2338
PHED 1164	PFW 1160C	SPCH 1318	COMM 2315
PHED 1164	PFW 1165A	SPCH 1342	COMM 1340
PHED 1164	PFW 1165C	SPCH 2333	COMM 2330
PHED 1164	PFW 1165D	SPCH 2341	COMM 2326
PHED 1164	PFW 1165E	BIOL 2401	BIO 2451
PHED 1164	PFW 1190A	BIOL 2402	BIO 2452
PHED 1164	PFW 1190B	BIOL 2401	BIO 2451
PHED 1164	PFW 1190C		
PHED 1164	PFW 1190E		
PHED 1304	H ED 1310		
PHED 1306	H ED 2354		
PHED 1336	REC 2335		
PHED 1346	H ED 2338		
PHIL 1301 *	PHIL 1305		
PHIL 2303	PHIL 2330		
PHIL 2306 *	PHIL 1320		
PHIL 2316	PHIL 2311		
PHIL 2317	PHIL 2312		
PHYS 1101	PHYS 1115		
PHYS 1102	PHYS 1125		
PHYS 1105	PHYS 1110		
PHYS 1111	PHYS 1140		
PHYS 1301 *	PHYS 1315		
PHYS 1302 *	PHYS 1325		
PHYS 1305 *	PHYS 1310		
PHYS 1307 *	PHYS 1320		
PHYS 1311 *	PHYS 1350		
PHYS 1312 *	PHYS 1340		

\* Courses that fulfill Texas State's general education core curriculum requirements.

## Credit-by-Examination and International Baccalaureate (IB)

### Credit-by-Examination

Credit may be earned by achieving a sufficient score (as determined by the relevant academic department at Texas State University) on any of several exams and submitting official score reports to the Testing, Research Support, & Evaluation Center (TREC). Credit may also be earned by submitting a transcript from another college or university to the Office of Undergraduate Admissions, which documents credits awarded through examination.

Sufficient scores on the following examinations may be applied for credit:

1. College Level Examination Program (CLEP),
2. College Board Advanced Placement Examination Program (AP),
3. International Baccalaureate Program (IB), and
4. Certain established departmental examinations (administered by TREC or by the relevant academic department)



The two hours of physical education credit will be awarded by Undergraduate Admissions upon receipt of Form DD-214 (Report of Separation) as long as the following can be verified: two years of active military duty, the student graduated from an accredited high school or equivalent, and the student is an honorably discharged member of the military who completed at least two years of service or was discharged because of a disability. The student must also submit an official high school transcript. Other military course work may be considered for transfer credit upon receipt of these acceptable forms of documentation:

1. JST (Joint Services Transcript)
2. CCAF Transcript (Community College of the Air Force)

Undergraduate Admission grants credits for lower- and upper-division course work but not for graduate-level work. Transfer credit is subject to approval by the student's major department/ school. For information on how to apply for admission, please visit the Veteran Admission web page (<http://www.admissions.txstate.edu/future/veterans.html>).

## Veteran's Guaranteed Admission Program

The Texas State University System's (TSUS) Veterans Guaranteed Admission Program is designed to encourage all honorably discharged veterans to complete their undergraduate college education by guaranteeing admittance to one of the System's institutions of higher education. Military veterans may gain admission to one of the TSUS institutions in several ways:

1. Veterans who apply by the institution's application deadline and meet the freshman or transfer admission requirements of the TSUS institution will be admitted after their application and official credentials are complete usually in 2-3 weeks.
2. Veterans who narrowly miss the admission requirements of the TSUS institution of their choice will be admitted via one of the institution's alternative admissions programs (e.g., summer bridge programs, admission contract programs, or similar admission opportunities).
3. Veterans not interested in gaining admission through a summer bridge or similar program may opt to have their file referred to another TSUS institution.
4. TSUS institutions will provide transfer counseling to veterans who wish to begin their higher education pursuits at a community college. Working closely with university admissions counselors, veterans will be provided a specific pathway through one of the Lamar State Colleges or another community college to be able to transfer seamlessly at a later date. These students will be guaranteed admission as soon as they fulfill their transfer admission plan with the TSUS institution.
5. Veterans seeking technical degrees or specific workforce training will be admitted to Lamar State College-Orange, Lamar State College-Port Arthur or the Lamar Institute of Technology. Should their goals change and a baccalaureate degree be sought, these students will be counseled by Lamar staff to take appropriate courses and will be guaranteed admission to any of the TSUS institutions as soon as the transfer requirement has been met.

## International Admission

An international student is defined as anyone who is not a United States citizen. However, a permanent resident alien who has completed two or more years in and graduated from a U.S. high school is required to

meet the admission requirements established for U.S. citizens (see Undergraduate Admission in this section of the catalog).

International applicants should complete the International Student Application which is available at [www.applytexas.org](http://www.applytexas.org) (<http://www.applytexas.org>). The application and all credentials must be submitted by the required deadline. A non-refundable \$90.00 fee (U.S. currency) is required for all international applicants. Freshman applicants who are graduates of foreign secondary schools must demonstrate that they have above average academic achievement and an education equivalent to that of a U.S. high school graduate. Students transferring from foreign institutions must demonstrate above average academic achievement in their post-secondary education. Applicants must submit original academic records (or copies which have been certified by an appropriate school official) of all secondary and post-secondary course work, examination results, SAT/ACT test scores, certificates awarded, and/or diplomas. A certified English translation must accompany the original academic records if the original records are not in English. Freshman applicants who are graduates of a U.S. high school and who completed at least two years in a U.S. high school must meet the freshman admission requirements established for U.S. citizens. Transfer applicants from within the U.S. must meet all regular transfer admission requirements (see Undergraduate Admission in this section of the catalog).

All applicants whose native language is not English must present proof of English proficiency. Texas State accepts the following measures of English proficiency for regular admission:

- Test of English as a Foreign Language (TOEFL) minimum score of 550 (paper-based test, PBT) or 213 (computer-based test, CBT), or 78 total score (internet-based test, iBT) with the following 3 out of 4 minimum section scores: 19 in Reading, 19 in Listening, 19 in Speaking and 18 in Writing, or
- International English Language Testing System (IELTS) minimum score of 6.5, or
- International Baccalaureate (IB) grade of 4, 5, 6 or 7 in English A1 or A2 at the Higher Level or Standard Level or English B at the Higher Level, or
- 30 semester hours of college course work transferred from a regionally accredited U.S. institution to include ENG 1310 College Writing I and ENG 1320 College Writing II with grades of "C" or higher, or
- Advanced Level exam in English Language on GCE, GCSE, IGCSE or HKCEE with grade of "C" or higher, or
- Completion of all level 5500 Texas State Intensive English classes with composite grade of "A" or "B" and positive recommendation from program director.

International students who meet the established admission requirements but do not yet have the required level of English proficiency may be eligible for the Texas State Intensive English Bridge program. A TOEFL score between 500 & 549 (PBT) or between 173 & 210 (CBT) or 58 (iBT) total score with minimum section scores of 14 in Reading, 14 in Listening, 14 in Speaking and 14 in Writing, or IELTS score between 5.5 & 6.9 is required for the Texas State Intensive English Bridge program. Admission to the Texas State Intensive English Bridge program allows students to begin university academic study on a part-time basis while completing their English proficiency requirements in the Texas State Intensive English program. Acceptance into full-time academic study is contingent upon achieving one of the measures of English proficiency listed in the paragraph above, successfully completing the Intensive English program



at Texas State and completing the Texas State credit courses with a grade of “C” or higher.

## F1 International Students Transferring to Texas State from Another U.S. Institution

International students who wish to transfer to Texas State University need to meet the academic as well as the immigration requirements for this transfer. Students who have been already admitted into an academic program and provided the financial documentation required for their admissions should follow the steps below to process their SEVIS or immigration transfer. This is a separate procedure not to be confused with the academic transfer done through the Undergraduate or Graduate Admission offices. Simply transferring academically doesn't complete your SEVIS transfer.

1. Notify your international/ (<http://www.international.txstate.edu>)immigration student advisor at your current school of your intent to transfer and verify the procedures with them.
2. Request your current school to fill out and fax or email the Status Verification Form. It is your responsibility to make sure that your previous/current institution fills out the Status Verification Form and submits it.
3. Upon your notification, a DSO at your current school will update your record in SEVIS as a “transfer out” and indicate a release date. Once this release date is reached the International Office at Texas State will have access to your SEVIS record to process your transfer I-20.
4. After the release date of your SEVIS record contact the Texas State International Office to confirm that all documents needed for your SEVIS transfer have been received as well as your SEVIS record.
5. Call the International Office to schedule a check-in. You must bring all of your immigration documents to this meeting. Your transfer I-20 will be given to you at this time. For more detailed information on our Check-ins and International Student Orientation visit our website at [www.international.txstate.edu](http://www.international.txstate.edu) (<http://www.international.txstate.edu>).

## Important Considerations

- Transfer students must start attending classes within 5 months of the last day he or she attended classes (or ended OPT), or the next available session, whichever comes sooner.
- If a student completes a course of study (or OPT), the student is eligible for transfer through the end of the 60-day grace period.
- If you are planning on traveling abroad you must re-enter the country with the I-20 from the school that holds your SEVIS record at the time. If your release date occurs when you are abroad the Texas State International Office will have to mail you the transfer I-20.
- A student's authorization for OPT or CPT ends on the transfer release date or the end of the work authorization whichever one is earlier.

## F1 International Students Transferring to Another U.S. Institution from Texas State

To transfer to another U.S. institution from Texas State you must request a SEVIS transfer from the International Office. This is a separate transfer from the academic transfer and does not imply a transfer of your academic records. The SEVIS transfer will allow your new institution to issue you a new I-20 that will allow you to maintain your legal status.

To notify the Texas State International Office of your intension to transfer out, you must fill out the SEVIS Transfer Out Form and submit it to our office with the admissions acceptance letter attached to it.

An International Office advisor will determine an appropriate release date for your SEVIS transfer which will generally be the last day of your current semester. More detailed information is included in the SEVIS Transfer Out Form.

If you decide to cancel your transfer, you must notify the Texas State International Office before your SEVIS transfer release date. Once the transfer release date has been reached, Texas State will no longer have access to your SEVIS record and your new institution will be responsible for the management of your record.

Simply receiving the new school's I-20 doesn't complete the transfer process. Contact the staff at your new institution responsible for assisting international students about completing the required SEVIS transfer procedures.

For further information on immigration requirements, contact the Texas State International Office at 512.245.7966 or [www.international.txstate.edu](http://www.international.txstate.edu) (<http://www.international.txstate.edu>).

For further information on admission requirements for international students, contact the Office of Undergraduate Admissions at 512.245.2759 or [www.admissions.txstate.edu](http://www.admissions.txstate.edu) (<http://www.admissions.txstate.edu>).

## Other Admission Categories

In addition to the more common admission types –freshman, transfer, returning (readmit) and international– Texas State admits and enrolls students from less common admission categories as well. Applicants for admission from the these categories must comply with modified application procedures and, in some cases, special (category-specific) admission requirements:

- Early Admission
- Individual Review
- Second Bachelor's
- Auditors
- Transient/ Visiting
- Non-degree Seeking
- Special Talent

## Early Admission

Texas State's Early Admission Program affords local high school juniors and seniors the opportunity to take college-level courses at Texas State while still in high school. The program is intended for students whose grade point average is a B or higher, meet or exceed the university's assured freshman admission requirements, and come recommended by their high school counselor or principal. PSAT scores will be used in lieu of SAT or ACT scores until they become available. All the usual freshman deadlines (<http://www.admissions.txstate.edu/future/ deadlines.html>) apply. For more information on the Early Admission Program, visit this Office of Undergraduate Admissions web page (<http://www.admissions.txstate.edu/future/admission-categories.html>).

Students admitted under this option are considered non-degree seeking and are ineligible for financial aid. After high school graduation, those

wishing to continue in a degree-seeking status must reapply and submit their final high school transcript.

## Individual Review

Applicants who have been out of high school for at least three years and have 0-29 transferable credit hours may be considered for admission on an individual basis. Applicants must submit an official high school transcript validating high school graduation or GED completion certificate. The high school transcript or GED certificate, college transcript(s), application including one essay (Topic C) and information on extracurricular activities, and the \$75 application fee must be submitted by the appropriate deadline. No test score is required for admission review, but test score submission is recommended.

## Second Bachelor's Degree

Students who have completed a bachelor's degree and wish to obtain a second bachelor's degree are required to apply for admission. Those seeking a second bachelor's degree in business administration, the McCoy College requires the overall GPA from your first degree be a 2.5 or higher. Second-bachelor degree seekers cannot pursue a General Studies major. Students who hold a bachelor's degree and wish to pursue additional course work but not a second bachelor's degree should apply through the Graduate College.

To apply, students should submit the ApplyTexas application, \$75 application fee and official transcripts from all colleges or universities attended including the transcript where the highest degree was obtained. Transcripts for any course work completed after the degree was earned must also be submitted. All the usual deadlines (<http://www.admissions.txstate.edu/future/deadlines.html>) apply. For more information on how to apply for a second bachelor's degree, visit this Office of Undergraduate Admission web page (<http://www.admissions.txstate.edu/future/admission-categories.html>).

## Auditing Courses

Those who wish to audit a course must be accepted by the Office of Undergraduate Admissions and approved by the school, department, or program offering the course. Audit status must be declared at registration. Participation in class discussion and examinations are optional with the instructor. Auditors receive no course credit but are expected to attend class regularly. With departmental/school approval, a student who has audited a course may later take the course for credit. After registering for class(es), the student must contact the Office of the University Registrar (<http://www.registrar.txstate.edu/registration/audit.html>) in person by the 4th class day in the summer, or by the 12th class day in the fall or spring. Check the university's Academic Calendar for the exact date. Auditors will pay the same fees as if the course were taken for credit, and the course will be entered on his or her transcript record, but the student will not receive credit for the course.

Citizens 65 or older may audit courses without payment of a fee if space is available. Registration is permitted just prior to the start of the semester, with reduction made by the tuition adjustment clerk, Student Business Services (JCK Administration Building), before registering.

## Academic Forgiveness

Some prospective transfer students may be eligible for one of these alternative admission programs. Students interested in either the Academic Fresh Start or Academic Bankruptcy program are urged to

consult with an admission counselor first before pursuing one of these options. These programs are intended for prospective students only and cannot be applied after the student has been accepted.

## Academic Fresh Start

Under the provisions of the Texas Education Code, the Academic Fresh Start program was established to allow a Texas resident to apply for admission and elect to have all academic course work earned 10 or more years prior to the requested enrollment date ignored for admission purposes. Individuals who choose Academic Fresh Start, including former Texas State students, must meet current published admission criteria for Texas State and must submit official records from all colleges attended. Students admitted under this provision will not receive any course credit for courses taken 10 or more years prior to enrollment.

## Academic Bankruptcy Policy

Students who have not enrolled in any accredited college or university for five or more consecutive calendar years immediately prior to admission to Texas State may, at the time they apply for admission, request permission to declare academic bankruptcy. Under this policy all college-level work done at an earlier date is eliminated from computation of the GPA and none of it is applied toward a degree at Texas State. Such work, however, will not be removed from the student's records. Those granted academic bankruptcy are admitted on academic probation.

## Transient/Visiting Student Admission

Students who have completed college work and who are working toward a degree at another college or university are eligible to be considered for transient/visiting admission. Transient/Visiting admission is for the summer only. The applicant must complete an application for admission listing all colleges and universities attended. To be admissible as a transient/visiting, a student must be in good standing at their current institution. A current transcript or documentation from Registrar indicating good standing at the institution of current enrollment must be submitted to the Office of Undergraduate Admissions. Upon completion of the summer work, the student may request a transcript/visiting for use in the home institution. Credit and grade points earned as a transient/visiting student at Texas State will not be used in determining regular eligibility for admission to Texas State.

## Non-Degree Seeking

The Non-degree Seeking Student option is intended for those not working toward a degree from Texas State. Students who have prior college work but have not earned a Bachelor's degree and wish to enroll for courses at Texas State may be considered for admission as a non-degree seeking student. Non-degree seekers are limited to a total of 24 semester hours and must reapply for admission each semester. Credit earned as a non-degree seeking student will not be considered for future admission to Texas State but may be considered for degree purposes only after the student has reapplied and met general admission requirements. Those admitted under this option are not eligible for Financial Aid. For more information on admission requirements and application procedures, visit the Office of Undergraduate Admissions.

Students who have earned a Bachelor's degree and wish to enroll in undergraduate courses should apply for admission as non-degree seeking through the Graduate College.

## Special Talent

Students who are awarded a Fine Arts or Athletic scholarship and are recommended for admission by the Dean of the College of Fine Arts and Communication or the Director of Athletics, but do not meet Assured, Predicted Academic Success or Individual Approval admission requirements, may be granted admission to Texas State. Freshman students admitted under the Special Talent Program must rank in the top three quarters of their high school class. Transfer students must have a minimum 2.00 cumulative GPA. The university president may authorize exceptions to this policy.

## Admission Appeals

Students denied admission to Texas State have the right to appeal the decision. Those students who file an appeal will undergo an extensive review by the Admission Appeals Committee, and will be notified in writing of the final decision.

For an appeal to have merit, it must bring to light new academic information (new semester grades, class rank and/ or test scores sent directly from the high school or the testing service) and/or information relevant to any extenuating circumstances that were not reflected in the original application. Students who have retested or are scheduled to retest should submit their official scores to the Office of Undergraduate Admission as soon as they are available. Sending new scores does not require a student to go through the appeals process, but rather allows the student to be reconsidered for admission based on the new test scores. All appeals are reviewed on an individual basis.

## New Student Orientation and Registration for Classes

All students, including returning/ readmit, second bachelor's, international, non-degree seeking, and visiting/ transient students, are required to attend a New Student Orientation (<http://www.admissions.txstate.edu/admitted/orientation.html>) (NSO) session prior to the start of classes. For the student who has not attended Texas State for one long semester, he or she will be required to both reapply to the university and complete orientation. NSO takes place before each semester as a means of providing just-in-time information about student support services, class scheduling, and other university resources. It covers a range of activities but is highlighted by advisement and class registration services. Transfer students with more than 15 completed transferable hours after high school graduation, as well as readmit and subsequent degree students, are eligible for online orientation. International students must also attend International Student Orientation.

## Academic Bankruptcy Policy

Students who have not enrolled in any accredited college or university for five or more consecutive calendar years immediately prior to admission to Texas State may, at the time they apply for admission, request permission to declare academic bankruptcy. Under this policy all college-level work done at an earlier date is eliminated from computation of the GPA and none of it is applied toward a degree at Texas State. Such work, however, will not be removed from the student's records. Those granted academic bankruptcy are admitted on academic probation.

## Academic Fresh Start

Under the provisions of the Texas Education Code, the Academic Fresh Start program was established to allow a Texas resident to apply for admission and elect to have all academic course work earned 10 or more years prior to the requested enrollment date ignored for admission purposes. Individuals who choose Academic Fresh Start, including former Texas State students, must meet current published admission criteria for Texas State and must submit official records from all colleges attended. Students admitted under this provision will not receive any course credit for courses taken 10 or more years prior to enrollment.

## Albert B. Alkek Library

Alkek Library

[www.library.txstate.edu](http://www.library.txstate.edu) (<http://www.library.txstate.edu>)

T: 512.245.2686 F: 512.245.0392

The Alkek Library contains more than 1.5 million print materials, including books, documents, theses/dissertations, and other resources. The library provides access to 600,000 ebooks, 500+ databases, more than 180,000 audiovisual materials, and more than 700,000 microform materials.

Special holdings of the Library include the Wittliff Collections (comprised of the Southwestern Writers Collection and the Southwestern and Mexican Photography Collection,) and the University Archives. The Library is also a selective depository for federal government documents. As a member of the Texas Digital Library, the Library's Digital Collections (<http://digital.library.txstate.edu/>) provides access to unique Texas State collections, including scholarship authored by university faculty, students, and staff and selected materials from The Wittliff Collections and the University Archives.

The Library's online catalog (<http://catalog.library.txstate.edu>) provides information on the Library's holdings. Wireless access to the university network is available within the Library. Laptop computers may be checked-out for building use. The Learning Commons provides workstations, laser printers, scanners, video conferencing and video-editing equipment, presentation and GIS technology support, an Open Theater workshop space and adaptive equipment for individuals with disabilities.

The Library maintains cooperative borrowing agreements with other libraries in the region. Through TexShare, a statewide resource sharing program, students and faculty may borrow materials held by most public and private university libraries in the state. Materials may be transferred, by request, to the Texas State University Library in Round Rock.

## Career Services

LBJ Student Center, 5th Floor

[www.careerservices.txstate.edu](http://www.careerservices.txstate.edu) (<http://www.careerservices.txstate.edu>)

T: 512.245.2645

***Exemplary career services leading Texas State students into the future.***

We provide compassionate, comprehensive career assistance to the diverse Texas State family. Our services incorporate leading practices to guide students through all stages of their career development and progression from college to career.

Through Career Services, students have access to a wide array of career-related programs, resources, and career development support.

## Career Planning and Exploration

Individual career counseling and planning assistance is available to students as they select a major and establish their career goals. Career assessments and web-based guidance programs are also available to facilitate this process. In addition, counselors can review job search materials and assist with post-graduate program applications.

## Career Advising and Job Search Strategies

Career Advisors are available to meet one-on-one with students to discuss their job search preparation. Topics of discussion include résumé and cover letter writing, interviewing techniques, and salary negotiations. Workshops focused on career development and professionalism are offered throughout the school-year to help in the transition from student to professional.

## Employment

Resources are available to assist students find part-time, full-time, college work-study, internships and summer employment. These opportunities can be found in our online database, Jobs4Cats. Résumés, class schedules, applications, and proof of employment eligibility are required.

## Job Shadowing and Internships

Job shadowing is a short term opportunity for students to discover various career options. This experience includes spending time with professionals inside different organizations gaining firsthand knowledge about diverse career fields, and serves as a critical component of career exploration. Internship opportunities are available to refine career goals, gain practical experience, and expand students' views of the world. Often, internships serve as key experiences that lead to full-time opportunities.

## Employer Connections

Career Services provides students and alumni the opportunity to interact with numerous employers for networking and employment purposes. Bobcats have access to Jobs4Cats, Texas State's exclusive job search database, as well as many additional online resources that can be viewed at [www.careerservices.txstate.edu](http://www.careerservices.txstate.edu) (<http://www.careerservices.txstate.edu>).

Career Services hosts approximately ten career events per semester. A few examples include an "All Majors" Spring and Fall Job and Internship Fair, STEM (Science, Technology, Engineering and Math) Job and Internship Fair, Health Professions Fair, and a Mass Communication Career Fair. These events bring hundreds of employers to campus with internship, part-time, and full-time opportunities for students and alumni.

Additional networking is available through employer information sessions and panel presentations, annual externship days, and résumé referrals.

Career Services hosts a robust on-campus interviewing program. Each long semester, approximately 70 employers conduct 700+ interviews on campus for internship and full-time opportunities. All on-campus interviewing opportunities can be found in Jobs4Cats.

## Office of Disability Services

LBJ Student Center 5-5.1  
[www.ods.txstate.edu](http://www.ods.txstate.edu) (<http://www.ods.txstate.edu>)

T: 512.245.3451 F: 512.245.3452

Texas State University does not discriminate on the basis of disability in the recruitment and admission of students. Students with disabilities must meet the same admission requirements as all other prospective students. A student whose educational and/or personal goals for success have been negatively impacted due to disability-based reasons may wish to address this in the supplemental essay portion of the admission application. Students needing sign language or oral interpreting services for admissions counseling or academic advising should contact ODS one week prior to the event to ensure interpreter availability.

The Office of Disability Services (ODS) at Texas State University is dedicated to supporting the lives of students with disabilities who seek the goal of higher education. Because each individual's situation is unique, the ODS simply asks that any interested student meet with us. Documentation requirements vary by situation. The ODS staff member will discuss documentation with the student during the initial consultation. No student should delay meeting with us out of concern for not having appropriate paperwork.

Students with disabilities may be entitled to financial assistance from the Department of Assistive and Rehabilitative Services (DARS).

Texas State University has established a grievance procedure for the prompt and equitable resolution of complaints related to illegal discrimination on the basis of disability. This grievance procedure is described in UPPS No. 04.04.46 (<http://www.txstate.edu/effective/UPPS/UPPS-04-04-46.HTML>), Prohibition of Discrimination or Harassment. A copy is available in the university library, the Office of Disability Services and most other university offices. Students who have concerns or complaints should contact the ODS Director at 512.245.3451 or the university ADA Coordinator at 512.245.2278.

## Financial Aid and Scholarships

J.C. Kellam Building Room 240  
[www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>)  
Email: [financialaid@txstate.edu](mailto:financialaid@txstate.edu)  
T: 512.245.2315

Texas State makes every effort to help students who need assistance in paying for the cost of their education. Various financial aid programs are available. Interested students should contact Financial Aid and Scholarships or visit the office's website to view the types of assistance that are available.

## Federal and State Aid Programs

Texas State participates in both federal and state financial aid programs. Financial Aid and Scholarships offers grants, work study, student and parent loans, scholarships and other types of aid. Students with sufficient financial need can benefit from such grants as the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, TEACH Grant, Iraq-Afghanistan Service Grant, TEXAS Grant, Texas State Tuition Grant and Texas Public Educational Grant.

## Applying for Financial Aid

To apply for financial aid, a student must complete and submit the Free Application for Federal Student Aid (FAFSA) online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov)



(<http://www.fafsa.ed.gov>) and include the Texas State University school code – 003615.

## Deadlines

- March 15 is the priority date for filing a FAFSA for the upcoming academic year (fall and spring). If the deadline is missed, a student may still apply and receive some forms of assistance such as the Pell Grant and student loans.
- March 1 is the priority deadline for filing the separate summer financial aid application prior to the upcoming summer semester. This separate summer application, which can be found online at [www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>), is in addition to filing the appropriate year's FAFSA.
- For scholarships deadline information, visit [www.financialaid.txstate.edu/scholarships](http://www.financialaid.txstate.edu/scholarships) (<http://www.financialaid.txstate.edu/scholarships>).

## Satisfactory Academic Progress Requirements

Federal regulations require students to meet certain minimum academic standards in order to remain eligible for financial assistance. The requirements are that a student:

1. maintain a minimum cumulative Texas State GPA;
2. complete at least 67% of all coursework; and
3. not exceed a maximum limit of attempted hours toward their degree.

Additional program-specific requirements also exist. View these SAP criteria in more detail at [www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>) by selecting *Undergraduate Aid* from the dropdown menu and then *Maintain My Eligibility*.

## Alternative Loan Resources

For information on alternative loans, visit [www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>), select *Undergraduate Aid* from the dropdown menu and then *Types of Aid*.

## Official Withdrawals and Financial Aid

If a student withdraws or is expelled from the university on or prior to the 60-percent point of the semester, the student is required to repay any unearned portion of their federal Title IV aid. For more details, visit [www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>), select *Undergraduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## Unofficial Withdrawals and Financial Aid

If the student fails to earn a passing grade in at least one of their courses (i.e., all U's, all I's or a combination of all U's, W's or I's) during a semester, the student is considered to have, for purposes of federal Title IV funds, unofficially withdrawn from the university. As a result, a federal withdrawal calculation must be performed to determine the amount of Title IV funds the student must repay. For more details, visit [www.financialaid.txstate.edu](http://www.financialaid.txstate.edu) (<http://www.financialaid.txstate.edu>), select *Undergraduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## Non-Attendance and Financial Aid

If the student is a Pell Grant, Iraq-Afghanistan Service Grant (IASG) or TEACH Grant recipient, federal regulations require the student to have begun attending the courses for which the student is enrolled and receiving these grants. If on the census date roster (e.g., 12th day of each fall and spring semester) the student is reflected as not attending a course, the student is assumed (for financial aid purposes) not to have begun attendance for that course. The student's grant will then be adjusted or cancelled based on the courses the student has actually begun attending. For more details, visit [www.finaid.txstate.edu](http://www.finaid.txstate.edu) (<http://www.finaid.txstate.edu>), select *Undergraduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## To Withdraw

The student must complete the form entitled "Texas State Official Withdrawal Request" from the Registrar's Office. Financial aid recipients should speak with a Financial Aid and Scholarships representative before the withdrawal is processed. The withdrawal date is defined as the date on which a student first indicates his or her intent to withdraw.

## Housing and Residential Life

DHRL Office Building  
515 N. Comanche Street  
[www.reslife.txstate.edu](http://www.reslife.txstate.edu) (<http://www.reslife.txstate.edu>)  
T: 512.245.4663 F: 512.245.7619

## University Housing Policy

The Department of Housing and Residential Life at Texas State University supports the academic mission of the university by providing on-campus housing. In support of the educational mission of the university and the value of the on-campus residential experience to students the department provides students with a safe, comfortable and convenient living environment, while offering opportunities for increased campus involvement, social interaction and academic assistance. For these reasons, the university requires that certain students live on campus.

New freshmen under the age of 20 (by September 1 for fall admission or January 1 for spring admission) with fewer than 30 credit hours are required to live in on-campus university housing. All students who graduated from high school within the preceding 12 months of the semester of their admission are also required to live on campus.

## Living On-Campus

Ask someone about their college experience, and they're likely to relate stories of the most exciting, intense and memorable times of their life. These memories will almost always relate to their experience in a residence hall. The on-campus living experience is where lifetime friendships are formed, ideas and ideals are exchanged, and a whole world of opportunity and potential is spread before those willing to explore, study and get involved.

It is the mission of the Department of Housing and Residential Life to provide you with welcoming living communities that foster academic success, campus engagement, and personal development.

Research on-campus and nationally has shown that, when compared to those living elsewhere, students living in the residence halls are more fully involved in academic and extracurricular activities and tend to earn a higher GPA.



## Dining On-Campus

No matter what you like to eat, when you want to eat, or whom you want to be with, our dining plans have your needs in mind. The university offers four different dining plans so you can pick the one that best fits your schedule, eating preferences, and pocketbook.

## Applying to Live On Campus

Contracts for on-campus housing are accepted only after you have been admitted to Texas State

## Cancellation Deadlines

Contracts for on-campus living are for the entire academic year. Once your contract has been signed and returned there are very limited reasons for cancellation. If you are not planning to attend the university, cancellation deadlines must be met for a deposit to be refunded. Please see our contract terms and conditions for specific cancellation details.

## Veteran's Affairs

J.C. Kellam Building Room 105  
[www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>)  
 Email: [veteransaffairs@txstate.edu](mailto:veteransaffairs@txstate.edu)  
 T: 512.245.2641 F: 512.245.3271

Students attending Texas State while receiving educational assistance under one of the public laws for veterans and/or their dependents must contact the Texas State Office of Veterans Affairs to complete the required forms. Information and forms are also available on our website [www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>).

New and transfer students applying for educational benefits under the U.S. Department of Veterans Affairs for the first time must provide the Office of Veterans Affairs with a Certificate of Eligibility for the respective benefit, a photocopy of the DD214 Member 4 form, "Certificate of Release or Discharge from Active Duty," and a Change of Place of Training VA Form 22-1995 for transfer students. Reserve and National Guard members applying for Chapter 1606 benefits must provide DD 2384 form: "Notice of Basic Eligibility". Active duty military and dependents are exempt from the above DD-214 requirement. All students must follow the degree requirements in order to receive the maximum payout of their benefit. It is the student's responsibility to notify the Office of Veterans Affairs of any adds, drops, course, or program changes.

Benefit payments are made at the end of each month. Any student enrolling under any of the provisions for VA educational benefits should bring sufficient funds to defray the initial cost of tuition, fees, and living expenses for approximately three (3) months.

As a graduate student receiving veteran benefits, you must file with the Office of Veterans Affairs an official master's degree outline, a certification deficiency plan, or other similar documentation showing the requirements needed to accomplish your objective. It is the student's responsibility to notify the Office of Veterans Affairs of any adds, drops, course, or program changes.

Dependents of Texas veterans and veterans who have exhausted VA educational benefits, should check with the Office of Veterans Affairs for information about the Hazlewood Exemption. Note: dependents students who are eligible for Hazlewood are subject to federal satisfactory academic progress (SAP) policies. For more information, go to <http://www.va.txstate.edu/benefits/hazlewood.html>. Applications and

information sheets for the Hazlewood Exemption may be obtained at the Office of Veterans Affairs or at [www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>).

## Tuition and Fees

Information regarding tuition and fees may be obtained at <http://www.sbs.txstate.edu/>.

The University reserves the right to change fees in keeping with the acts of the Texas Legislature and the Board of Regents of The Texas State University System. The payment of all fees entitles the student to admission to classes; admission to auditorium and athletic attractions; subscription to The University Star; use of the Student Center and Recreational Sports Center, health services, and Sewell Park facilities; and group use of the Wimberley Camp. These fees also help provide funds for the Associated Students, band, choir, dramatics, debate and other student activities.

## Tuition

### Tuition for Excessive Undergraduate Hours

Texas Education Code §54.014 specifies that resident undergraduate students may be subject to a higher tuition rate for attempting excessive hours at any public institution of higher education while classified as a resident student for tuition purposes. Texas State students attempting hours in excess of their degree program requirements will be charged at the non-resident tuition rate for those hours, and those students are categorized as follows:

1. Students initially enrolled during or after the fall 2006 semester will be charged at the non-resident rate if, prior to the start of the semester or session, the student has previously attempted 30 or more hours over the minimum number of semester credit hours required for completion of the degree program in which the student is enrolled.
2. Students initially enrolled during the fall 1999 through summer 2006 semesters will be charged at the non-resident rate if, prior to the start of the semester or session, the student has previously attempted 45 or more hours over the minimum number of semester credit hours required for completion of the degree program in which the student is enrolled.

Attempted courses include those courses attempted at Texas State or any Texas public institution of higher education. The following types of credit hours will count toward the excessive hour limit if they are normally eligible for formula funding:

- hours earned in courses in which a grade is earned on the transcript;
- major courses;
- dual degree (excessive calculation assumes 30 hours);
- minor courses (for optional minors, excessive calculation assumes 18 hours. For minors above 18 hours, the academic advisor notifies Student Business Services (SBS) to override the excess hours calculation);
- certificate courses
- teaching certification courses
- hours in distance and off-campus course
- bankruptcy hours;
- repeated courses; and

- courses dropped after the official census date.

The following types of credit hours are exempt and will not count toward the limit:

- hours earned by the undergraduate before receiving a bachelor's degree that has been previously awarded;
- hours earned through examination or similar method without registering for a course;
- hours from developmental courses or interventions, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at Texas State if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions;
- hours earned by the undergraduate at a private institution or an out-of-state institution;
- hours not eligible for formula funding;
- hours earned by the undergraduate before graduating from high school and used to satisfy high school graduation requirements; and
- hours earned by the undergraduate ten or more years before beginning a new degree program under Academic Fresh Start as described in Texas Education Code §51.931 and Texas Education Code §61.0595(c).

Students with excessive hours are encouraged to contact their academic advisor to review their degree plan and insure that it is complete, accurate and to verify the hours required for completion.

Exceptions due to economic hardship are permitted under defined institutional policy. A student with an economic hardship is defined as someone who, at the time of registration, is documented with the Office of Financial Aid as being eligible for a Federal Pell Grant, regardless of whether they actually receive the funding due to enrollment status, non-satisfactory academic progress, or other reasons. Students who become Pell eligible, during the semester in which they are charged the non-resident tuition, may submit eligibility documents to the Student Business Services office no later than the official last class day of the semester in which the exception is being requested.

## Tuition Rebate Program

Under Texas Education Code §54.0065, qualified students will receive up to a \$1,000 tuition rebate upon graduation from Texas State. You must apply for the tuition rebate no sooner than the first day of the semester in which you graduate and no later than 60 days after graduation. If you do not graduate because you did not meet the graduation requirements, you will need to complete another form for the next semester in which you are eligible. To earn the rebate, it is particularly important to follow the advice and counsel of the academic advisors.

### Academic Qualifications

To be eligible for the rebate program:

- The student must complete the tuition rebate application form and submit it to his/her academic advisor within 60 days of graduation date.
- The first enrollment in any institution of higher education must be in the fall 1997 semester or later.
- The student must have received his/her baccalaureate degree from a Texas public university.
- The student must be a resident of Texas and entitled to pay resident tuition at all times while pursuing the degree.

- If enrolled for the first time in fall 2005 or later, the student must graduate within four calendar years from the first semester enrolled for a four-year degree or within five calendar years for a five-year degree. Note that the four- or five-year time limit prescribed begins on the first day of the month for enrollment in the semesters described as follows: September for a fall semester, January for a spring semester, June for summer I, and August for summer II. For example, a student enrolling for the first time in fall 2006 for a four-year degree must complete that degree no later than September 1, 2010 to be eligible for the rebate.
- The student must attempt no more than three hours in excess of the minimum number of semester credit hours required to complete the degree under the catalog under which he/she graduates. Hours attempted include transfer credits, course credit earned exclusively by examination (except that, for the purposes of this Rebate Program, only the number of semester credit hours earned exclusively by examination in excess of nine semester credit hours is treated as hours attempted), courses that are dropped after the official census date (twelfth class day for fall and spring semesters, fourth class day for summer sessions, including mini-session), for-credit developmental courses, optional internship and cooperative education courses, and repeated courses. For students concurrently earning a baccalaureate degree and a Texas teaching certificate, required teacher education courses shall not be counted to the extent that they are over and above the free electives allowed in the baccalaureate degree program. Courses dropped for any reasons that are determined by the institution to be totally beyond the control of the student shall not be counted.

This tuition rebate program is designed to provide a financial incentive for students to complete their baccalaureate studies with as few extraneous courses as possible. Students must consult with their academic advisor to assure they meet all requirements to qualify for this program. Rebates will first be applied to outstanding obligations owed to Texas State prior to funds being issued to the student.

Appeals due to hardship are permitted under defined institutional policy. Effective for students who enroll for the first time in fall 2005 or later, an otherwise eligible student may be eligible for a rebate without satisfying the above requirements, if the student is awarded a baccalaureate degree and the college dean certifying the degree has determined, with the completion of a Tuition Rebate Hardship Justification form, that the student has demonstrated a hardship under any of the following conditions:

1. a severe illness or other debilitating condition that may affect the student's academic performance;
2. an indication that the student is responsible for the care of a sick, injured, or needy person and that the student's provision of care may affect his or her academic performance; or
3. performance of active duty military service.

## Special Fees and Charges

Admission Application Fee	\$60.00
Admissions/Evaluation Fee for International Applicants	\$75.00
Athletic Training Fee (to sophomores who have earned competitive admission to the undergraduate athletic training education program)	\$100.00

Auditing Fee	same as if course were taken for credit
Certificate Fee (payable when applying for teacher certification)	
Texas Standard Certificate	\$77.00
Deficiency Plan Fees (for students seeking teacher certification)	
First Plan	\$75.00
Additional Plans (each)	\$25.00
Late Payment Fee (for installments not paid by due dates)	\$25.00
Electronic Course Fee (per semester credit hour)	\$50.00
Evaluation of Foreign Credentials (for domestic applicants)	\$35.00
Payment Plan Enrollment Fee (for handling & other processing)	\$30.00
Late Registration Fee	
Prior to first day of class	\$25.00
1st 7 class days - fall/spring	\$100.00
1st 2 class days - summer	\$100.00
8th through 12th class day - fall/spring	\$200.00
3rd-4th class days - summer	\$200.00
Off-Campus Course Fee (per semester credit hour)	\$30.00/semester credit hour
Orientation Fee (mandatory, non-refundable)	\$60.00
Physical Therapy Application Fee	\$50.00
Post-Baccalaureate Teaching Intern Application Fee	\$500.00
Returned Item Fee (for handling and other processing)	\$30.00
Transcript Fee (official copy)	\$5.00

Some fees are waived for students taking classes exclusively in Round Rock.

## Campus Parking/Vehicle Registration Fee

Every student, faculty, and staff person who operates or parks a vehicle on campus must:

1. register the vehicle at Parking Services
2. purchase a permit
3. properly display the permit anytime the vehicle is parked on campus
4. become familiar with and abide by the traffic and parking rules. The rules are enforced at all times throughout the year. The purchase of a permit and registration of the vehicle does not guarantee a parking space.

Fees for vehicle registration will be published each year in the Schedule of Classes and in the official rules and regulations. You may register your vehicle on-line at [www.parking.txstate.edu](http://www.parking.txstate.edu) (<http://www.parking.txstate.edu>).

Additional information concerning the purchase and issuance of parking permits may be obtained by contacting Parking Services at 512.245.2887.

## Course Repeat Fee

The Texas Legislature (TEC 54.014) eliminated funding to higher education for courses that are attempted three or more times. An attempted course is defined as any course in which a grade is earned on the transcript, including repeated courses and courses dropped with a grade of "W".

In order to compensate for this loss of state funding, students attempting a course for the third or more time may be charged a fee in addition to the tuition charged for the course. The fee is subject to change each year upon action of the Texas Higher Education Coordinating Board. This fee will be assessed for courses attempted at Texas State as of the fall semester of 2002 or later. This assessment does not include courses attempted at other colleges or universities.

Certain courses are exempt from this fee because they are designed to be repeated for additional credit, such as thesis, dissertation, and independent study courses; various music, physical education, physical fitness and wellness, studio art, and theatre courses; developmental education courses; and topics courses.

Exceptions due to economic hardship are permitted under defined institutional policy. A student with an economic hardship is defined as someone who, at the time of registration, is documented with the Office of Financial Aid as being eligible for a Federal Pell Grant, regardless of whether they actually receive the funding due to enrollment status, non-satisfactory academic progress, or other reasons. Students who become Pell eligible, during the semester in which they are charged the non-resident tuition, may submit eligibility documents to the Student Business Services office no later than the official last class day of the semester in which the appeal is being requested.

A student shall be exempted from payment of higher tuition for any course repeated in the final semester in which the student is graduating, if the course(s) is taken for the purpose of receiving a grade that will satisfy a degree requirement. This exemption applies for only one semester. The exemption does not affect an institution's ability to charge a higher rate for courses that cannot be reported for funding for other reasons such as the excess credit hour limit, or an institution's ability to waive higher tuition rates for economic hardship. Students who are eligible for this exemption, during the semester in which they are charged the non-resident tuition, may submit eligibility documents from their academic advisor to the Student Business Services office no later than the official last class day of the semester in which the appeal is being requested.

## International Student Operations Fee

All international students with an immigration status of "F1" or "J1" will be charged \$60.00 per semester for the maintenance of records, compliance with government regulations, and other services.

## Laboratory Fees

The amount of lab fees varies on a per course basis. See the Schedule of Classes for current lab fees.

## Testing Fees

Texas State students, enrolled in a distance education course, who wish to take a course exam through the Testing, Research-Support, and

Evaluation Center (TREC) or the Correspondence, Extension, and Study Abroad Programs Office in San Marcos, or the Round Rock Campus Testing Center, will be charged \$20.00 per test. This fee applies only to students who wish to take a course exam through these offices rather than take the exam at the times offered as part of the distance education course.

Non-Texas State students, enrolled in a distance education course at another college or university, who wish to take a course exam at the Testing, Research-Support, and Evaluation Center or the Correspondence, Extension, and Study Abroad Programs Office in San Marcos, or the Round Rock Campus Testing Center, will be charged \$40.00 per test.

## Room and Board Rates

Information regarding room and board rates for a specific semester may be obtained at [www.reslife.txstate.edu](http://www.reslife.txstate.edu) (<http://www.reslife.txstate.edu>). Room and board is billed on a semester basis and may be paid in full at registration or in installments. All residence halls will be closed between semesters; however, Texas State may choose to keep some of the halls open during the break for an additional room charge.

## Refund of Room and Board Fees

Any student who withdraws officially from Texas State may receive a refund on the unused portion of the room and board payment. Room and board charges will continue until the student has officially moved from university housing and has received written clearance from the director of Housing and Residential Life. Any refund due will be applied to any unpaid financial obligation with Texas State. If the refund exceeds any unpaid balance, a refund will be processed within 30 days to the permanent address on file in the Registrar's Office or deposited to the students' bank account if they have signed up for direct deposit.

## Student's Financial Obligations

Students are expected to meet financial obligations to the University when they are due. Tuition is due on the date given in the academic calendar, and students are not entitled to attend classes unless the tuition bill has been paid in full or in accordance with an approved payment plan. Refer to Student Business Services website Payment Options (<http://www.sbs.txstate.edu/students/payment-options.html>) for detailed information on payment options and requirements of payment plans.

Failure to pay the amount owed in the allotted time, or payments made with checks that are returned to Texas State unpaid by the bank may result in any or all of the following:

1. Dismissal from the University,
2. Withholding of future registration privileges,
3. Withholding of grades or an official transcript,
4. Withholding the conferring of a degree,
5. Bar against re-admission for the student,
6. Warrant hold with the State of Texas,
7. Referral of debt to a collection agency.

## Returned Checks

If a check or EFT is returned unpaid for any reason other than the admitted error of the bank, the student must pay for the returned check with cash, cashier's check, money order or credit card (MasterCard, VISA, Discover, Diners Club or American Express) immediately. A \$30.00 service fee is assessed for each returned check. Until the check is paid, the student will be on "Cash Only" status. Cash Only status is a denial of check cashing privileges on campus.

Individuals who have three returned checks or EFT within a 12-month period, will be placed on Cash Only status.

Stopping payment on a check for fees or allowing the check to be returned unpaid by the bank for any reason does not constitute official withdrawal. Failure to follow procedures for withdrawing from Texas State may result in financial penalties and delays with future enrollment in the University.

## Installment Policy

Tuition, fees, and room and board may be paid through the following alternatives:

1. Full payment is due prior to the beginning of the semester.
2. Students may enroll in a payment plan. You can view by going to: <http://www.sbs.txstate.edu/>.

## Installment Payments

Students are responsible for making their installment payments by the due date. For questions about due dates and amounts due, contact the Student Business Services Office at 512.245.2544. Students can check their balance and make payments on the web at <http://www.sbs.txstate.edu/>.

## Late Payment Fees

A delinquent charge of \$25 will be assessed the first day after the installment due date. Under Texas Education Code §54.007, a student who fails to make full payment of tuition and fees, including any incidental fees, by the due date may be prohibited from registering for classes until full payment is made. A student who fails to make full payment prior to the end of the semester or term may be denied credit for the work done that semester or term. See the Student Financial Obligation section for more details.

## Refunds

Enrolling for courses at Texas State University constitutes a financial obligation to the University. It is the student's responsibility to withdraw from the University prior to the first official University class day for any semester or term to avoid financial obligation. Withdrawal Information is available on the Office of the University Registrar website.

Dropping courses or withdrawing from the University does not relieve a student of their financial obligation to the University for any unpaid charges (including financial aid adjustments) incurred for the related semester or term. The refund percentages are applicable to all tuition and fees except non-refundable fees including late fees and orientation fees. Refunds of parking fees must be requested at the Parking Services office.

An immediate refund **WILL NOT** be made at the time a student withdraws. All refunds will be applied to remaining unpaid obligations, including



registration balances for future terms, before funds are returned to the student.

Refunds on payments made by credit card will be refunded back to the card. All other refunds will be processed as direct deposit (eRefund) or check. Refunds by check will be mailed to the student's address in the following priority (unless otherwise noted): (1) Mailing (2) Local (3) Permanent.

All refunds will be processed within 30 days.

Room and board refunds will be applied to any remaining financial obligation owed to Texas State. The additional charge for moving from one dorm to another or moving into a private room will be added to the balance due.

Refunds in the Event of Death. In the event a student dies and a refund of tuition, fees, room and board, deposits, or other monies is due the estate of the deceased student, the university will, as soon as practicable after the death of the student, pay all refunds to the estate of the deceased student.

## Drops

**IMPORTANT:** Dropping credit hours or withdrawing from the semester may affect your financial aid award. Students receiving financial aid should contact the Financial Aid Office before dropping or withdrawing.

If you have dropped hours or withdrawn from the University, the term balance may not reflect the necessary adjustments. Please allow a minimum 10 business day waiting period for award adjustments to be processed.

Dropping a course or courses means that there is at least one other course left in your registered schedule for a semester/term. Please refer to the Academic Calendar or Refund Schedule (see below) for semester/term specific deadlines for drop refunds.

There is no refund for courses dropped after the twelfth class day of the fall/spring term and fourth class day of a regular 5-week summer term\*.

\*Please note: Summer semesters have several different terms within the semester. Please contact our office for specific drop dates for summer.

## Withdrawals

Withdrawing means a student will no longer be attending any course for the semester/term. Students must withdraw from ALL courses to be considered as withdrawn for the semester. Withdrawals are initiated in the Office of the University Registrar. Please refer to the Academic Calendar or Refund Schedule (see below) for semester/term specific deadlines for withdrawal refunds. Withdrawal Information is available on the Office of the University Registrar website.

\*Please note: Summer semesters have several different terms within the semester. Please contact our office for specific withdrawal dates for summer. Additionally, during the summer, please allow a minimum 10 business day waiting period for billing account adjustments to be processed.

## Academic Policies

This section of the catalog contains information about Texas State's general academic policies. All Texas State students should review this information carefully when they enter the University.

## Honor Code

As members of a community dedicated to learning, inquiry, and creation, the students, faculty, and administration of our university live by the principles in this Honor Code. These principles require all members of this community to be conscientious, respectful, and honest.

### We are Conscientious

We complete our work on time and make every effort to do it right. We come to class and meetings prepared and are willing to demonstrate it. We hold ourselves to doing what is required, embrace rigor, and shun mediocrity, special requests, and excuses.

### We are Respectful

We act civilly toward one another and we cooperate with each other. We will strive to create an environment in which people respect and listen to one another, speaking when appropriate, and permitting other people to participate and express their views.

### We are Honest

We do our own work and are honest with one another in all matters. We understand how various acts of dishonesty, like plagiarizing, falsifying data, and giving or receiving assistance to which one is not entitled, conflict as much with academic achievement as with the values of honesty and integrity.

## The Pledge for Students

Students at our university recognize that, to ensure honest conduct, more is needed than an expectation of academic honesty, and we therefore adopt the practice of affixing the following pledge of honesty to the work we submit for evaluation:

"I pledge to uphold the principles of honesty and responsibility at our university."

## The Pledge for Faculty and Administration

Faculty at our university recognize that the students have rights when accused of academic dishonesty and will inform the accused of their rights of appeal laid out in the student handbook and inform them of the process that will take place:

"I recognize students' rights and pledge to uphold the principles of honesty and responsibility at our university."

## Addressing Acts of Dishonesty

Students accused of dishonest conduct may have their cases heard by the faculty member. The student may also appeal the faculty member's decision to the Honor Code Council. Students and faculty will have the option of having an advocate present to insure their rights. Possible actions that may be taken range from exoneration to expulsion. Information about the Honor Code Council and its policies and procedures may be found at [www.txstate.edu/honorcodecouncil](http://www.txstate.edu/honorcodecouncil) (<http://www.txstate.edu/honorcodecouncil>).

## Registration

### Registration Instructions

Registration Instructions contain CatsWeb registration instructions, dates, fee schedules, instructions on dropping a class or withdrawing,



refund schedules, and other information that will be needed throughout the semester. This information, along with the most current class offerings, is available at [www.registrar.txstate.edu/registration.html](http://www.registrar.txstate.edu/registration.html) (<http://www.registrar.txstate.edu/registration.html>).

## Academic Advising

Texas State encourages all students to seek academic advising before each registration and at other times when academic questions arise. In some departments, schools, or colleges and for some students, this advising may be mandatory. Students who are undecided about their major are advised through the University College, others through their major department or school and/or in the appropriate college advising center. Advisors help students understand academic requirements and plan schedules to meet those requirements as well as address the choice of majors and career preparation issues.

## Undergraduate Student Classification

Classification is based on cumulative hours passed, not counting hours currently enrolled.

Freshman	0-29 hours
Sophomore	30-59 hours
Junior	60-89 hours
Senior	90+ hours

## Course Numbers

Courses listed in this catalog and in the Schedule of Classes follow a four-digit numbering system. The first digit indicates the level of the course: 1—freshman, 2—sophomore, 3—junior, 4—senior, 5— and 6—master's, 7—doctoral. The second digit indicates the number of semester credit hours the course carries. The last two digits usually indicate the location of the course in the department/school's curriculum. A letter (A, B, C, etc.) attached to a course number usually indicates a topics course. The numbers in parentheses following a course title indicate the clock hours per week spent in lecture and in laboratory, respectively.

## Texas Legislative Requirements

### Texas Success Initiative Program (TSIP)

The main component of the TSIP program is an initial assessment that measures skills in mathematics, reading, and writing. All students, except those who are TSI-Exempt, should take an initial assessment test before their first semester in college at a Texas public institution of higher education. Students with disabilities who need reasonable accommodations should contact the Office of Disability Services.

The State of Texas has one approved assessment instrument, the TSI Assessment. This assessment instrument is administered at the Texas State University as well as all two- and four-year public institutions across the state year-round. Prior to taking the TSI Assessment, all examinees must complete a Pre-Assessment Activity (PAA) to understand the importance and process of the assessment, developmental options, and institutional resources.

### Approved Assessment Instruments and Cut-Scores

#### TSI Assessment

- College Ready Cut-Scores
  - Mathematics - 350
  - Reading - 351

- Writing - Essay Score of 5; Essay Score of 4 with Multiple Choice of 363

- Developmental Education Cut-Scores
  - Mathematics - 336
  - Reading - 342
  - Writing - 350

## TSI Exemptions

Some students are exempt or partially exempt from assessment. A student will be identified as TSI-Exempt or partially exempt when Texas State has received official proof that he or she satisfies any one of the following:

- Earned an Associate or Bachelor's degree from an institution of higher education whose accreditation is recognized by SACS (Southern Association of Colleges and Schools);
- Earned a composite score of at least 23 and at least 19 on the Mathematics and/or English components of an ACT TEST which is no more than five years old;
- Earned a Verbal plus Mathematics total of at least 1070 on a SAT test that is less than five years old, with a minimum score of 500 on the Verbal and/or a minimum of 500 on the Math;
- Performed on the Eleventh grade exit-level Texas Assessment of Knowledge and Skills (TAKS) test that is no more than five years old with a minimum scale score of 2200 on the English Language Arts section with a writing composition score of at least 3 and/or a minimum scale score of 2200 on the Mathematics section;
- STAAR end-of-course (EOC) with a minimum score of Level 2 on the English III shall be exempt from the TSI Assessment required under this title for both reading and writing, and a minimum score of Level 4 on the Algebra II EOC shall be exempt from the TSI Assessment required under this title for the mathematics section.
- Enrolled in a certificate program of one year or less (Level-One certificates, 42 or fewer semester credit hours or the equivalent);
- Previously attended any institution and has been determined to have met readiness standards by that institution;
- Serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment;
- Was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States on or after August 1, 1990.
- An institution may exempt a non-degree seeking or non-certificate seeking student.
- ESOL Waiver—An institution may grant a temporary waiver from the assessment required under this title for students with demonstrated limited English proficiency in order to provide appropriate ESOL/ESL coursework and interventions

The Undergraduate Admissions Office should receive your transcript and ACT, SAT, or TAKS scores. The Office of Disability Services should receive the necessary documentation that the student is deaf or blind. The Success Initiative Program Office may also receive TAKS scores.

## Remediation

If the student fails one or more parts of the initial assessment test, he or she will be required to participate in an individualized developmental

education program that will prepare the student for freshman-level coursework in the area of deficiency. The program may require re-testing, enrollment in developmental courses, and/or participation in lab-based remediation. There are several ways to meet the requirements of the Success Initiative. The student and a Success Initiative Program representative will jointly determine successful completion of the program.

### Out-of-State/Private School Transfers

A student who is transferring coursework from a private or out-of-state school may not need to take an assessment test. This rule has many restrictions, and students should check with the Success Initiative Program Office before assuming this applies to them. The following statements apply to exact transfer courses and not to ELNA courses. They also must have been taken at private or out-of-state schools. A student who transfers a grade of "A", "B", or "C" in the following will be regarded as having passed the Mathematics part of the assessment test.

MATH 1315	College Algebra	3
MATH 1316	Survey of Contemporary Mathematics	3
MATH 1319	Mathematics for Business and Economics I	3

A student who transfers a grade of "A", "B", or "C" in the following will be regarded as having passed the writing part of the assessment test.

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3

A student who transfers a grade of "A", "B", or "C" in any one of the following will be regarded as having passed the reading part of the assessment test:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
PSY 1300	Introduction to Psychology	3
ENG 2310	British Literature before 1785	3
ENG 2320	British Literature since 1785	3
ENG 2330	World Literature before 1600	3
ENG 2340	World Literature since 1600	3
ENG 2360	US Literature since 1865	3

If a student has passed some part of the assessment test satisfactorily, he or she should take the remaining parts of the test prior to attempting to register for classes at Texas State.

Incoming students who have taken an assessment test but have not submitted their scores to Texas State, should contact the Success Initiative Program Office for additional information: [www.txstate.edu/tsip](http://www.txstate.edu/tsip) (<http://www.txstate.edu/tsip>).

## Requirements in History and Government

Pursuant to Texas Education Code §51.302, every student graduating from a state-supported college or university must complete six semester hours of American history and six semester hours of American government. Both of these requirements are included in Texas State's general education core curriculum. According to current law, up to three semester hours of credit in an upper-level ROTC course may be applied to the core curriculum history requirement (HIST 1310 or HIST 1320) and up

to three hours to the core curriculum government requirement (POSI 2320 only).

## Field of Study

Field of Study means a set of courses that will satisfy the lower division requirements for a bachelor's degree in a specific academic area. Field of study curricula were mandated in Senate Bill 148 (75th Texas Legislature) and are intended, along with general education core curricula, to facilitate the free transferability of lower-division academic course credit among public colleges and universities throughout Texas. As found in Texas Education Code Chapter 61, Subchapter S, Section 61.821-61.829, field of study curricula are developed in accordance with the policies and procedures of the Texas Higher Education Coordinating Board, along with the assistance of advisory committees composed of representatives of institutions of higher education. To date, field of study curricula have been developed in the following academic areas: Business, Computer Science, Communications, Criminal Justice, Early Childhood Education, Engineering, Engineering Technology, Grades 4-8 Teacher Certification, Music.

Each field of study will include the lower division courses that are required before a student may enroll in upper-division courses within the degree program, and may also offer guidelines and suggestions for appropriate general education core curriculum or elective courses in addition to the courses that actually compose the field of study curriculum itself. If a student successfully completes a field of study curriculum that block of courses may be transferred to a general academic teaching institution and must be substituted for that institution's lower division requirements for the degree program for the field of study into which the student transfers, and the student shall receive full academic credit toward the degree program for the block of courses transferred. A student who transfers from one institution of higher education to another without completing the field of study curriculum of the sending institution shall receive academic credit from the receiving institution for each of the courses that the student has successfully completed in the field of study curriculum of the sending institution. Following receipt of the credit for these courses, the student may be required to satisfy further course requirements in the field of study curriculum of the receiving institution. A student concurrently enrolled at more than one institution shall follow the field of study curriculum of the institution in which the student is classified as a degree-seeking student. More information about field of study is available online at: [www.thecb.state.tx.us/ctc/ip/core11\\_00/index.htm](http://www.thecb.state.tx.us/ctc/ip/core11_00/index.htm) ([http://www.thecb.state.tx.us/ctc/ip/core11\\_00](http://www.thecb.state.tx.us/ctc/ip/core11_00)).

## Degree Plan

Upon enrollment, all degree-seeking students are provided with a degree plan through DegreeWorks. Based upon the student's major, this online system displays the courses required for graduation, tracks the individual student's progress and maintains an up-to-date list of their remaining course work. Students and advisors utilize this tool to facilitate proper class scheduling and to monitor progress toward the degree. (Texas Education Code, Chapter 51, Section 51.9685)

## Academic Regulations

### Catalog Designation

The catalog designation a student receives when entering Texas State determines the curriculum and other academic policies that apply to

the student. Catalog designations are made according to the following guidelines:

1. Students with no prior college work are assigned to the current catalog.
2. Students with prior college work:
  - a. Students with prior college work from out-of-state or private institutions are assigned to the current catalog.
  - b. Students with prior college work during the last six years, solely from Texas public institutions of higher education, are assigned to the Texas State catalog which was in effect at the time of the student's initial college enrollment.
3. Returning Texas State students (Any Texas State student who does not enroll in the University for one long semester but wishes to return is considered a returning student. Refer to "[Readmission of Returning Texas State Students](http://mycatalog.txstate.edu/undergraduate/general-information/admissions/readmission-returning-students) (<http://mycatalog.txstate.edu/undergraduate/general-information/admissions/readmission-returning-students>)):
  - a. Returning students whose initial Texas State enrollment was more than six years ago are assigned to the current catalog.
  - b. Returning Texas State students whose initial Texas State enrollment was within the last six years and who have completed fewer than 30 hours of college work elsewhere during the interim retain their initial Texas State catalog designation.
  - c. Returning Texas State students whose initial Texas State enrollment was within the last six years and who have completed 30 or more hours of college work elsewhere during the interim are assigned to the current catalog.
4. A college dean may change the catalog designation.

Per Texas Administrative Code, Rule 4.25, each institution of higher education shall permit a student who transfers from another Texas public institution of higher education to choose a catalog for the purpose of specifying graduation requirements, based upon the dates of attendance at the receiving institution and at the transferring institution, in the same manner that a non-transfer student may choose a catalog. Each Texas public institution of higher education shall include information about graduation requirements under a particular catalog in its official publications, including print and electronic catalogs.

## Course Information

Information on Texas State's undergraduate classroom courses, including lecture and seminar courses, may be found at the following web site: <http://hb2504.txstate.edu>. Contents include course syllabi, curriculum vita for the instructor of record, departmental budget reports, end-of-course evaluations of faculty and current work-study job openings.

## Course Load

The following regulations govern the number of credit hours an undergraduate student may carry during a given term:

1. Fall or Spring Semesters: Students enrolled in 12 or more credit hours are considered full-time students. Students in good academic standing may register for up to 18 credit hours each semester. Graduating seniors or other students with a Texas State GPA of 3.50 or higher may register for 19 or more credit hours with approval from their academic dean.
2. Summer Term: Students enrolled in 12 or more hours combined over the Summer term are considered full-time students. Students in good

academic standing may register for up to 10 credit hours in each of the parts of Summer term.

Only in exceptional circumstances, and only with the approval of the college dean, will students be allowed to exceed the stated course load limitations. In any regular semester or summer term during which a student is enrolled at Texas State, the course load limitations apply to all work attempted, whether at Texas State or elsewhere.

## Class Attendance

Texas State expects students to attend every scheduled class meeting. General requirements for class attendance are as follows:

1. Faculty are encouraged to establish mandatory attendance requirements in each course.
2. Each faculty member will inform students of the course attendance policy at the initial class meeting.
3. Students are responsible for understanding the attendance policy for each course in which they enroll and for meeting the attendance requirements.
4. Failure to meet the attendance requirements in a course may lower a grade.

## Religious Holy Days

"Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. In accordance with Texas Education Code Section 51.911, Texas State will allow a student who is absent from classes for the observance of a religious holy day to take an examination or complete an assignment scheduled for that absent day within a reasonable time after the absence if the student notifies the instructor of each class that he or she would be absent for a religious holy day. The Education Code includes excused absences for travel to and from the religious holy day observance. The student may make up class assignments or examinations without penalty within a reasonable time after the absence. Students may obtain notification forms from the Dean of Students' Office. The student should personally deliver completed forms to the instructor for each class. The instructor will sign and date the form, thus acknowledging notification. If the student cannot personally deliver the form to an instructor, the student should mail the form to the instructor by certified mail, return receipt requested. A student who is excused under this section shall not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination within a reasonable time. Each instructor may establish additional procedures to accommodate the needs of students who are absent from classes to observe a religious holy day. These procedures must not conflict with the state law. Coordinating Board rules now provide for an appeal of a disagreement between the student and a faculty member over an absence related to a religious holy day. If a student and an instructor disagree about the nature of the absence being for the observance of a religious holy day, or if there is a disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the President or the President's designee. The President or the President's designee must take into account the legislative intent of Education Code Section 51.911. The student and instructor shall abide by the decision of the President or the President's designee. The academic dean of each college serves as the President's designee to hear requests for decisions on these matters from either the faculty member or the

student. Any questions concerning this policy should be directed to the Office of the Dean of Students.

## Number of Drops

In 2007, the Texas Legislature enacted Senate Bill 1231 which provides that, except for specific instances of good cause, undergraduate students entering as first time freshmen at a Texas public institution of higher education in the fall of 2007 or later will be limited to a total of six dropped courses during their undergraduate career.

Under Texas Education Code Section 51.907 "an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education." This law applies to courses dropped at public institutions of higher education in Texas, including community and technical colleges, health science centers that offer undergraduate programs, and universities. Some courses will not count against the six-drop limit. These include courses dropped at independent or private Texas institutions, courses dropped while the student is still enrolled in high school, developmental courses, non-funded courses or courses dropped at colleges in other states. For the purposes of this law, a "dropped course" is defined as a course that is dropped after the census date, but before the last day to drop.

## Dropping Classes/Withdrawing from the University

Dropping a class is an official action whereby students inform Texas State that they will cease attending a class in which they are enrolled while remaining enrolled in at least one other course. Withdrawing is an official action whereby a student informs Texas State that he/she will cease attending all classes.

Automatic "W" Deadline – the deadline to receive an automatic "W" grade is the first 60% of the semester.

Drop Deadline – the deadline to drop (remaining in at least one hour) a class is the first 60% of the semester. Special deadline dates will be enforced for courses offered in a different format.

After the drop deadline, students will be unable to drop individual classes and will receive the grade (A, B, C, D, F, U, or I) earned in the course. To initiate an appeal to drop a class or classes after the semester has ended the student must provide:

1. a written letter of appeal and
2. documentation of extremely extenuating circumstances to the appropriate chair(s).

Withdrawal Deadline – the deadline to withdraw (go to zero hours) from Texas State is two weeks preceding final examinations during the fall and spring semesters and one week preceding final examinations during the two parts of Summer term.

If a student is withdrawing from Texas State after the automatic "W" period, faculty assign the "W" grade only to those students who have a passing average at the time the withdrawal action is officially completed. Otherwise, faculty members will assign an "U" grade.

## Grade Reports

Semester grades are based on the student's written or oral work in a given course. Attendance may also affect the grade. Final grade reports

can be accessed thru the University's student information system. Students may print a grade report via <https://ssb.txstate.edu>.

## Grade Symbols

Grades at Texas State are indicated by the following symbols: "A"-excellent; "B"-good; "C"-average "D"-passing; "F"-failing; "U"- unearned failing (student was not academically engaged until end of term) or withdrawn failing; "N" failure (never attended); "CR"-credit. A grade of "PR" which is temporary and non-punitive, may be assigned in selected courses where the required clock hours needed to complete requirements extend beyond the regular semester or summer session. The "I" grade may be assigned when, due to unusual circumstances beyond the student's control, a significant portion of a course, such as a term paper or final examination, has not been completed. If a student needs to repeat a course or a significant portion of a course, a "W", "F", or "U" grade should be assigned according to regulations governing the assignments of such grades. A "W" grade cannot be assigned if the student has not officially dropped the course within the semester deadlines. An "I" grade from Texas State will not count as hours completed until another grade is assigned. Twelve months after a Texas State "I" grade is assigned, it will automatically change to an "F" if the course work has not been completed. An "I" grade transferred from another institution remains as "I" on the Texas State record until an updated transcript is received from the other institution. A grade of "W" is assigned if a student drops a course by the Automatic "W" Drop/Withdrawal Deadline (see University Calendar in this catalog). After the Automatic "W" Drop/Withdrawal Deadline, a "U" or "W" will be assigned depending on whether the student is passing ("W") or failing ("U") the course at the time the drop/withdrawal action is officially completed.

## Grade-Point Average (GPA)

Texas State utilizes the four-point system. The GPA is the total number of grade points earned divided by the number of semester hours attempted. Semester grade symbols have the following values: "A" = 4 points; "B" = 3 points; "C" = 2 points; "D" = 1 point; "F" and "U" = 0 points. Neither hours nor grades are calculated for "I", "CR", "PR", or "W". To maintain an average of "C", grade points divided by semester hours attempted must equal at least 2.00.

The Texas State GPA for all work attempted at Texas State is used to determine whether a student is meeting minimum academic standards. Beginning in the fall of 1991, this Texas State GPA will be calculated by the procedures described in the section titled "Repeating Courses" (see below). Courses taken at other schools will not be included in the GPA at Texas State.

## Transcripts

Effective fall 1991, Texas State transcripts will separate transfer course work from Texas State course work. Transfer work will be listed first and will show the number of hours transferred. Texas State course work listed chronologically will follow any transfer course work. The transcript will show Texas State hours attempted, Texas State hours passed, Texas State grade points and Texas State GPA.

## Repeating Courses

Effective fall 1991, a student may repeat a course, but cannot receive credit for the course more than once unless the course description in the catalog specifically provides that the course may be repeated for credit. When a course is taken more than once from Texas State, the second grade (first repeat) and all subsequent grades (repeats) are



included in computing the Texas State hours attempted, grade points earned and GPA. W, I, PR, and RP grades are excluded. If the last grade in a repeated course is lower than an earlier grade, the last grade is used to determine whether the course fulfills university requirements. If the last time a course is taken is from another school, that course will meet degree requirements, but the last grade at Texas State counts towards the Texas State GPA. A course taken for transfer credit must be repeated as transfer credit to count as a repeat. When a course is taken more than once from a transfer institution, the second grade (first repeat) and all subsequent grades (repeats) are included in computing the Overall hours attempted, grade points earned and GPA. "W" and "I" grades are excluded.

## Change of Grade

An individual course grade may be changed when the involved faculty member certifies to the University Registrar that an error was made in computing the original grade. The grade change must be approved by the department chair/school director and the appropriate college dean. Students who wish to protest a grade earned in a course should first discuss the grade with the instructor. If no resolution is reached, the student may appeal the grade to the department chair/school director. If no satisfactory conclusion can be reached at this level, the student may appeal to the college dean whose decision is final. In accordance with Texas State's records retention policies, a student appeal for a change of grade must be filed no later than 2 years after the grade is issued.

## Student Indebtedness

All University property in a student's possession must be returned and all debts to Texas State, including past due indebtedness to loan funds, must be satisfactorily adjusted before the student is eligible to receive a statement of good standing, an official transcript of credit, graduation, or re-admission to Texas State. Moreover, continued failure to adjust such debt may result in the student's losing the privilege of attending class.

## Academic Probation and Academic Suspension

### Minimum Academic Standards

Students must meet minimum academic standards in work completed at Texas State. Those who fail to do so are placed on academic probation or academic suspension, as appropriate. In determining whether a student is placed on probation or suspension, only grades earned at Texas State are considered.

### Academic Probation

Academic probation is an emphatic warning that the quality of the student's work has not met Texas State's minimum academic standards and that the quality must improve during the probationary semester in order for the student to continue at Texas State. A student will be placed on academic probation at the end of the fall or spring semester in which the Texas State GPA is less than 2.00. A student will be removed from academic probation at the end of any long semester or summer term if the Texas State GPA is 2.00 or higher.

Students placed on academic probation are given two probationary semesters (fall or spring terms) to raise their Texas State GPA to 2.00. For example, if a student is placed on academic probation because the Texas State GPA has fallen to 1.85, then at the end of the two following probationary semesters the Texas State GPA must be 2.00 or higher, or the student will be placed on first academic suspension. Grades earned

in developmental coursework, in which neither hours nor grades are calculated toward the GPA, will not affect a student's academic standing.

## Policies Governing First Academic Suspension

A first academic suspension will be for the first long semester following placement on academic suspension. Appeals for reinstatement, based on extenuating circumstances, may be made prior to the Monday of registration week to the student's college dean or designee, who will render a decision on the matter. A student suspended from one college of Texas State may not be reinstated by the dean of another undergraduate college. Deans may, at their discretion, impose conditions regarding course load limits, work load limits, counseling, etc. If the dean denies reinstatement, the student may then appeal to the Suspension Appeals Committee. If reinstatement is allowed, the suspension notation will remain on the student's transcript. The transcript will also show "Reinstated for\_\_\_\_, Enters on Academic Probation."

Unless other special conditions are imposed by the dean or the Suspension Appeals Committee, students granted reinstatement and re-admitted on academic probation are given two probationary terms (fall or spring terms) to raise their Texas State GPA to 2.00.

In addition to any special conditions imposed by the dean or the Suspension Appeals Committee, students must meet the conditions under "Academic Probation" explained above.

At the end of the second probationary semester, if the Texas State GPA is less than 2.00, the student will be placed on second academic suspension.

Students who are placed on first academic suspension from Texas State at the end of the spring semester will be reinstated by the registrar on academic probation for the following fall semester if they

1. attend the summer term at Texas State,
2. pass nine semester hours, and
3. earn a 2.00 GPA on all work attempted in summer or the student will be removed from probation if the Texas State GPA is 2.00 or greater at the end of the summer term.

## Readmission Following a First Academic Suspension

At the end of the one long semester period for a first suspension, students must apply for readmission to Texas State for the subsequent semester. Students also must apply for readmission to Texas State following an absence of one long semester or more. Students who re-enter Texas State following an academic suspension do so on academic probation. For specific regulations, refer to paragraph on "Academic Probation". If the Texas State GPA is less than 2.00 at the end of the second probationary semester, the student will be placed on second academic suspension.

## Policies Governing Second Academic Suspension

Students who fail to meet the minimum academic standards defined above will be placed on academic suspension for a second time, for a period of two calendar years. If there are extenuating circumstances, students may appeal prior to the Monday of registration week to the appropriate college dean for reinstatement. If reinstatement is denied,



students may then appeal to the Suspension Appeals Committee. If the appeal is approved, students may return to Texas State on academic probation, subject to special conditions imposed by the dean or the Suspension Appeals Committee regarding course load limits, work load limits, counseling, etc. If reinstatement is allowed after one long term, prior to the end of the second calendar year, students must apply for re-admission to Texas State (refer to Program D in the Admissions section). The suspension notation will remain on the student's transcript, which will also show "Reinstated for \_\_\_, Enters on Academic Probation." In addition to any special conditions imposed by the dean or the Suspension Appeals Committee, students must meet the conditions under "Academic Probation" explained previously. At the end of the second probationary semester, if the Texas State GPA is less than 2.00, the student will be placed on academic suspension.

## Readmission Following a Second Academic Suspension

At the end of the two-year period for a second academic suspension, students may apply for re-admission to Texas State (refer to Program D in the Admissions section).

## Effect of Suspension on Correspondence or Extension Courses

While on suspension, students may complete a correspondence course in which they enrolled prior to suspension. Students may not enroll in an extension or correspondence course from Texas State while on suspension.

## Registering at Another Institution During Suspension

Students who have been placed on academic suspension are not prohibited from registering at another institution; however, such academic work will not change the GPA used for calculating probation and suspension, since only those grades earned at Texas State are calculated in determining probation-suspension status. Students who enroll for 30 or more semester hours at another institution while on suspension from Texas State will be considered transfer students if they return and will be required to have a 2.25 GPA in that work for re-admission.

## Exceptions

Cases in which the circumstances are not covered by the above regulations shall be handled at the discretion of the Director of Undergraduate Admissions and the college dean.

# Degree and Graduation Policies

## Request for Degree Audit

After completing 45-60 semester hours, students should request a degree audit through the college academic advising center or through their major department/school, as determined by college guidelines. When the audit is approved by the appropriate college dean or dean's representative, it will list all courses required for graduation. Students also have the option to run their own unofficial audit at any time before seeing their advisor. The audit should be used to determine which courses to take at each registration.

It is highly recommended that students see their academic advisors to review their degree audits within their last 30 hours prior to graduation. Students need to verify that they are meeting the appropriate degree requirements including coursework and grade-point averages in all courses taken at Texas State and in the major and minor fields of study. If any of the grade-point averages are below the minimums required for graduation, the degree audit can be used in deciding how to raise the averages in the remaining course work.

The college dean has the final approval and appeal for all graduation requirements, including but not limited to degree audits, grade point average, courses, prerequisites, graduation application, transfer credit, residency, catalog time limit and designation.

## Teacher Certification

Any degree that includes preparation for becoming a Texas certified teacher will have special degree and graduation requirements. Please refer to the degree requirements under the appropriate College's section and to the Teacher Preparation Program (p. 204) section of this catalog.

## Application for Graduation

Students must indicate their intent to graduate by applying for graduation at the beginning of their final long semester or summer session I for August graduation. The student must complete the graduation application using the online application in Self Service Banner. If a student fails to complete the required courses in time for a planned graduation, the student must reapply for the next graduation. Failure to apply for graduation on time may delay the awarding of the diploma until the following graduation. To allow for the receipt and processing of official transcripts in a timely manner, students taking off-campus courses in their final semester should make sure that the Office of Undergraduate Admissions receives official transcripts as soon as they are available from the sending institution.

## Minimum Degree Hours and Advanced Hours

Most undergraduate degrees at Texas State require a minimum of 120 semester hours, including 36 advanced hours (junior and senior level courses).

## Residency Requirements

To qualify for graduation with a bachelor's degree, a student must complete, through Texas State coursework, at least 25 percent of the minimum number of semester hours required for the degree; within this requirement, at least 24 semester hours must be advanced and at least 12 hours of the advanced work must be completed in the major at Texas State. Additionally, at least 24 semester hours of the last 30 hours completed that are required for the degree must be taken at Texas State. Correspondence, extension, and off-campus coursework completed through Texas State may be applied toward residency requirements. Credit-by-examination may not be applied toward residency.

## Minimum Grade-Point Requirements for Graduation

Before graduating from Texas State, first and second baccalaureate students must satisfy the following minimum grade requirements:

1. A Texas State GPA of 2.00
2. A GPA of 2.25 in the major(s)
3. A GPA of 2.00 in the minor(s)

NOTE: Individual departments/schools as well as degree programs with Teacher Certification may have higher requirements listed in their sections of this catalog.

## Maximum Elective Hours in Courses for the Major or Minor

No more than six semester hours within a major or a first teaching field may count as electives after the minimum requirements of the major or teaching field are fulfilled. Likewise, no more than six semester hours may be counted as electives in a minor or second teaching field once the minimums have been met. Approval of elective credit beyond these maximums must be granted by the appropriate college dean. If the degree program requires electives, the number of free elective hours a student will complete depends on the number of hours a student may need to achieve the minimum hours and/or the 36 advanced total hours required.

## Second Bachelor's Degree

A second bachelor's degree may be earned by completing a minimum of 30 additional semester hours as recommended by the chair/director of the student's major program/department/school and subject to the approval of the appropriate college dean. Students earning second bachelor's degrees subsequent to receiving the first bachelor's degree are eligible for graduation with honors if they complete 54 or more hours at Texas State in pursuit of the second bachelor's degree. Residency requirements (as indicated above) apply except that the advanced semester hours required are determined by the dean.

For students who have already completed a first baccalaureate degree at an accredited college or university, with the approval of the department chair/school director and the college dean, the core curriculum requirements for that degree may be accepted in lieu of Texas State's general education core curriculum. However, requirements associated with particular degrees, e.g., completion of the second semester of a modern language for a Bachelor of Arts degree, or Legislative requirements, e.g., history and government course requirements, must be included in an approved program for a second baccalaureate degree.

## Dual Bachelor's Degrees

If two bachelor's degrees are conferred simultaneously, the student must complete a minimum of 30 hours beyond the requirements of the single degree. Degree audits must be filed in the office of both college advising centers. Graduation will occur when the student has completed requirements for both degrees. Students completing dual bachelor's degrees receive two diplomas.

## Double Majors

A student who fulfills the specified requirements for two different majors authorized under a single degree has completed a double major and will receive a single diploma. Both majors appear on the diploma.

## Time Limit for Earning a Degree

Students may graduate under the requirements for the degree set forth in the Texas State catalog in force during the session in which they first enroll, provided they graduate within six years from the end of the session. Transfer students who have been assigned a Texas State catalog based on their first semester at a Texas junior college have six years from the end of the semester upon which their catalog designation was based to graduate, not six years from their initial semester at Texas State. After the expiration of such a period of time, students may have to meet requirements outlined in the current catalog. "Requirements for

the Degree" refers to the pattern of courses and grade-point averages required for graduation. It does not include other rules and regulations such as probation and suspension criteria, requirements for admission to courses or programs, etc.

## Transfer Credit from Two-Year Colleges

Texas State will apply to a degree up to 66 hours from an accredited junior/community college. (At the approval of the individual college dean, 6-8 hours may be added.) At the time of transfer, all transferable work attempted at a junior/community college will be recorded on the official transcript. If the number of hours transferred from a junior college exceeds 66, the student's chair or director will recommend to the college dean how the student will satisfy degree requirements.

## Athletic Certification

J.C. Kellam Building Room 164  
T: 512.245.8148 F: 512.245.6826

The Athletics Certification Office is responsible for obtaining, evaluating and documenting the academic credentials in accordance with National Collegiate Athletic Association (NCAA) and Sun Belt Conference eligibility rules for approximately 400+ student-athletes. This office provides the official certification of eligibility documentation to the Texas State Department of Athletics.

## Academic Honors

### Dean's List

To be eligible for the Dean's List at the close of any fall or spring semester, an undergraduate student must have earned a minimum GPA of 3.5 in that semester on at least 12 credit hours. Hours and grades earned through Texas State correspondence courses are not counted in the hours required to be eligible for Dean's List nor in the GPA calculation for Dean's List. Extension courses and Graduate courses do count for Dean's List calculation.

### Graduation with Honors

Students earning a GPA of 3.40-3.59 will graduate cum laude; 3.6-3.79 will graduate magna cum laude; 3.8-4.0 will graduate summa cum laude. Effective Summer 2012, to be eligible for graduation with honors, a student seeking a baccalaureate degree must have completed a minimum of 54 semester credit hours preceding graduation at Texas State. Calculation of the GPA to determine honors status is based on all Texas State work applied to the first baccalaureate degree, including work completed in the final semester.

Hours earned through Texas State correspondence courses and extension courses are counted in the hours required to be eligible for honors and in the GPA calculation for honors. Hours earned through Texas State credit-by-examination, work/life experience, and other courses receiving "CR" (pass/fail) grades are counted in the hours required to be eligible for honors, but do not count in the GPA calculation. Remedial courses with a "CR" grade and graduate courses are not counted in either the hours required or the GPA calculation for honors.

Transfer students who have earned at least 54 semester hours at Texas State are eligible to graduate with honors if their Texas State GPA meets the above criteria. Students earning second baccalaureate degrees are eligible for graduation with honors if they complete 54 or more hours at Texas State in pursuit of the second degree.

## Honor Societies

The following honor societies are open to qualified Texas State students. More information may be obtained through Campus Activities and Student Organizations (CASO). For a complete list of all Honor Societies, see the Registered Student Organizations website at [www.studentorgs.txstate.edu](http://www.studentorgs.txstate.edu) (<http://www.studentorgs.txstate.edu>).

### Alpha Chi

Alpha Chi is a national honor society, which promotes academic excellence and exemplary character among undergraduate college and university students and honors those who achieve such distinction. To qualify for membership, a student must be a first-time undergraduate, a junior or senior (having attained no less than 60 credit hours), have a minimum Texas State GPA of 3.50 on at least 45 semester hours at Texas State. Graduate students with a 4.0 and at least 15 hours of graduate course work at Texas State also qualify for Alpha Chi membership. Alpha Chi is the oldest honor society at Texas State, founded in 1922. Membership in the honor society is indicated on the student's transcript. For more information, contact Dr. Ronald Brown at [RonBrown@txstate.edu](mailto:RonBrown@txstate.edu).

### Alpha Lambda Delta

Alpha Lambda Delta is a national academic honor society for freshmen that honors academic excellence during a student's first year in college. Its purpose is to encourage superior academic achievement among students in their first year in institutions of higher education, to promote intelligent living and a continued high standard of learning, and to assist women and men in recognizing and developing meaningful goals for their roles in society. Membership is open to all freshmen who are registered for a full course of study leading to a bachelor's degree, who achieve a minimum scholastic average of 3.50 (based on grades of the first full semester or on the cumulative average of the first year in college), and who have paid the initiation and lifetime membership fee. For more information, contact Diann McCabe [dm14@txstate.edu](mailto:dm14@txstate.edu).

### Golden Key National Honor Society

Golden Key recognizes and encourages scholastic achievement and excellence in all undergraduate fields, supports the faculty and administration in developing and maintaining high academic standards, provides economic assistance by means of annual scholarships, and promotes altruistic conduct through volunteer service to Texas State and community. The Golden Key National Honor Society accepts students who have a minimum cumulative GPA of 3.40, have completed 60 college hours, 25 of which must have been taken at Texas State, have filed a Member Data Form, and have paid the initiation and lifetime membership fee.

### The Honor Society of Phi Kappa Phi

Phi Kappa Phi is the nation's oldest, largest, and most selective collegiate honor society for all disciplines. This prestigious honor society was chartered at Texas State in 2013 and thirty members of the faculty, staff, and administration signed the charter petition. To qualify for membership, undergraduates must be juniors who are in the top 7.5 percent or seniors in the top 10 percent of their respective classes. Graduate students must rank in the upper 10 percent of their class. Students who are invited to become members may join by paying the initiation and membership fee and participating in an induction ceremony. In addition to numerous membership benefits, the national organization awards over one million dollars in scholarships and fellowships each biennium. The local chapter

website is located at [www.txstate.edu/honors/involvement/phikappaphi](http://www.txstate.edu/honors/involvement/phikappaphi) (<http://www.txstate.edu/honors/involvement/phikappaphi>).

## Multicultural Course Designation

In support of an increasingly diverse student body, Texas State is dedicated to increasing multiculturalism in the curriculum. Thus, courses are identified in the catalog and schedule of classes that offer students an opportunity to enhance their multicultural competence.

### Classification System

The multicultural classification system helps Texas State track multicultural courses to determine the level at which we are providing U.S. and international diversity issues in the curriculum. The system is an accountability measure that is used as a tool to help departments/schools and colleges communicate diversity infusion to faculty, staff, students, and the community through published data reports. The classification system recognizes the significance of multicultural content and multicultural perspectives. Students benefit from multicultural content as well as perspectives.

#### Definitions

**Multicultural Content (MULT):** Courses with 60% of the content multicultural (U.S. or international.)

**Multicultural Perspective (MULP):** Courses using a variety of strategies to encourage multicultural literacy, including content, instructional strategies, assessment, and classroom interactions. (When this is the only classification noted, the content is less than 60%).

### Extension Studies

302 Academic Services Building North  
[www.extension.txstate.edu](http://www.extension.txstate.edu) (<http://www.extension.txstate.edu>)  
 T: 512.245.2322 F: 512.245.8934  
 Toll-free: 800.511.8656

The Office of Distance and Extended Learning offers many college courses not normally offered through the academic departments/schools. Extension courses may be offered on campus, online, hybrid/blended, or as part of a faculty-led Study-in-America or Off-Campus program. The times and locations for such courses depend on student need, faculty availability, and demand.

The following regulations govern Texas State extension study:

1. Enrollment in an extension course does not constitute official admission to the university.
2. Students from other institutions who wish to transfer extension credit should obtain prior approval of their home institution.
3. If enrollment in extension courses will create an academic overload, students must have prior, written approval of their college dean and department chair/school director.
4. Transcript records are maintained for all credit earned by extension.
5. A maximum of thirty semester hours for Texas State credit may be completed through a combination of correspondence, extension, and study abroad courses.
6. Students on active suspension from Texas State are not eligible to enroll in courses for extension credit.

7. Texas residents or persons attending public colleges or universities in Texas are subject to compliance with Texas Success Initiative Program regulations.
8. Students are responsible for ascertaining whether or not credit for an extension course will apply to a particular program and whether or not it will transfer to another institution.
9. Extension courses completed through Texas State are applicable toward residency requirements.
10. Texas State University must be approved to accept student enrollments from a student's state of residency, for a student who is residing outside of the state of Texas and who is not planning to relocate to Texas before beginning an online extension course. Students may visit the State Authorization page (<http://www.distancelearning.txstate.edu/state-authorization.html>) to determine whether Texas State may accept student enrollments from particular states.

## Study Abroad

Thornton International House  
344 W. Woods Street  
[www.studyabroad.txstate.edu](http://www.studyabroad.txstate.edu) (<http://www.studyabroad.txstate.edu>)  
T: 512.245.1967 F: 512.245.1644

A study-abroad experience expands students' intellectual and personal development as they become immersed in other cultures. Students gain a critical self-awareness, an appreciation for a multicultural world, and a clearer understanding of their own culture. Study abroad prepares students to assume their role as responsible world citizens and to succeed professionally in today's global economy.

The Study Abroad Office offers students the opportunity to participate in a variety of study abroad programs in hundreds of locations around the world. The academic credit students earn may be applied toward a degree at Texas State. Some of these programs involve direct enrollment in an overseas institution, while other programs are led by Texas State faculty.

Through Texas State Study Abroad Programs, students can spend from one week to a full academic year in another country either by learning another language, by concentrating their studies related to a specific topic in their field of study, or by participating in an internship. Texas State Study Abroad Programs include a variety of activities that allow students to learn and experience the culture of the host country. In some of these programs students have the opportunity to live with a host family and become totally immersed in the culture of the host country for a more comprehensive learning experience.

Program locations vary from year to year. Students may learn more about these programs from current information located on the Study Abroad website.

A Study Abroad Fair is held every semester. During this event representatives of different programs provide information to students interested in studying, teaching, interning, working and/or researching abroad.

## Financial Assistance for Study Abroad Programs

Most of the financial aid that students would normally receive for studying at Texas State may be applied toward Texas State Study

Abroad Programs. Additionally, there are many schools and study abroad providers that offer financial aid for attending their programs. If a student is receiving federal or state financial aid, it is recommended that the student speak with a representative of the Texas State Office of Financial Aid and Scholarships to determine the application of such aid to any study abroad program and the possible adjustment to meet the student's needs.

The Study Abroad Office also has information on scholarships that are available to students who plan to study abroad. At Texas State, students are eligible for the International Education Fee Scholarship (IEFS) as well. The IEFS is funded through the student service fee account. The scholarships are distributed in a competition open to all undergraduate and graduate Texas State students, including international students, who meet the established eligibility requirements.

## Continuing Education

302 Academic Services Building North  
[www.txstate.edu/continuinged](http://www.txstate.edu/continuinged) (<http://www.txstate.edu/continuinged>)  
T: 512.245.2507 F: 512.245.8934

The Office of Distance and Extended Learning works in cooperation with the academic colleges, schools, departments and programs to extend the resources of Texas State beyond the traditional campus classroom. Professional staff in the Office of Distance and Extended Learning work with faculty and staff in offering seminars, workshops, conferences, and short courses that help meet the educational needs of the many communities Texas State serves. The Office of Distance and Extended Learning coordinates planning, budgeting, marketing, fee collection, registration, meals, evaluation, and other duties that may be required.

These programs are generally non-credit in nature. Some programs receive Continuing Education credits, and those who successfully complete these designated programs are awarded Continuing Education Units (CEU). One CEU is awarded to a person who completes a ten-contact-hour program.

## Texas Certified Public Manager Program

[www.txstate.edu/cpm](http://www.txstate.edu/cpm) (<http://www.txstate.edu/cpm>)  
T: 512.245.3453 F: 512.331.7293

Texas State has been officially designated by the National Consortium of Certified Public Managers (CPM) to offer this program in Texas. The CPM Program offers a systematic training program to enhance the quality and efficiency of management in government and to improve professionalism and effectiveness of government managers. Individuals may enroll at any time during the year; programs are held approximately every two months. Admission to Texas State is not required. Courses may be completed for academic credit.

The CPM program is a nationally accredited comprehensive statewide management development program specifically for managers in federal, state, and local government and for managers in the not for profit sector. The program's primary goal is to improve the performance of public and not for profit sector managers and the organizational performance of state, local, and federal government. It is a comprehensive course of study by which public managers can acquire and apply the best practices and theory to their management behaviors and strategies using prescribed sets of professional standards. The curriculum uses theory as



the foundation and applies it to practical problems facing the participant, their agency/department, and the citizens. Those who complete the program earn a national trademark designation of CPM (Certified Public Manager®).

The Texas CPM Program is a 7 course sequence which leads to a nationally accredited public manager certification. The CPM Program is offered by Texas State University's William P. Hobby Center for Public Service.

## International Office

Thornton International House  
344 W. Woods Street  
www.international.txstate.edu (<http://www.international.txstate.edu>)  
T: 512.245.7966 F: 512.245.8264

The mission of the International Office is to support the comprehensive internationalization goals of Texas State University and assist the university in developing and maintaining an internationally diverse student body, faculty, and staff by:

1. Serving as immigration and cultural advisors to international students and scholars, advocating on their behalf, and providing services and information that facilitate their cultural adjustment, social integration, retention and success;
2. Assisting the university at large, international students, scholars, alumni, faculty and staff in particular, in complying with various governmental policies and regulations;
3. Contributing to the research and teaching mission of the university by assisting with employment authorization for distinguished international scholars, faculty and staff;
4. Promoting global awareness and internationalization at the university by facilitating international agreements, and by administering international programming through hosting and sponsoring international events.

### Health Insurance Requirement for Non-immigrant International Students

Texas State University has a health insurance requirement for international students that must be met each semester. All international students on non-immigrant visas are required by university policy to have health insurance coverage while enrolled in classes at Texas State. International students have two options for meeting this requirement - purchase the student health plan or request a waiver by submitting proof of health insurance coverage that is provided by a U.S. employer or paid for by the student's home country or U.S. Government.

Exchange students must purchase the student plan. There is no option to submit a waiver request.

Effective Fall 2016 the university will not add the health insurance charge to student's account and will not enroll students in the student plan.

Email notifications to the student's Texas State email account will be sent regarding this requirement each semester. The International Office has information on their website <http://www.international.txstate.edu/current/Health-insurance-.html>.

Students who do not meet this requirement by the deadline date, will have a "Hold" placed on their student account. A "Hold" will prevent you from changing classes, registering for the next semester classes, applying for graduation, and applying for OPT. These holds

can jeopardize your status for not maintaining F-1 requirements of enrollment. After this deadline, students will only be able to have their "Hold" removed by showing proof of purchase and enrollment in the student health plan. An email copy of the payment receipt or email confirmation from Academic Health Plan will need to be sent to [intlhealth@txstate.edu](mailto:intlhealth@txstate.edu) in order for a hold to be removed. Waiver requests will not be allowed after the waiver deadline.

Contact the International Office at [intlhealth@txstate.edu](mailto:intlhealth@txstate.edu) for questions about this requirement.

## Texas State Intensive English Program

Thornton International House  
344 W. Woods Street  
www.txstate.edu/ie (<http://www.txstate.edu/ie>)  
T: 512.245.7810 F: 512.245.3752

TSIE is a non-credit university intensive English-as-a-Second-Language (ESL) program for students who:

1. want to improve their command of the English language before entering college or university-level programs of study;
2. are participating in the TSIE Bridge Programs; or
3. would like to polish their English language abilities for academic readiness, test preparation, self-improvement and/or cultural integration.

Beginning, intermediate, and advanced classes, emphasizing academic reading, writing, grammar, and oral skills, are offered during the fall, spring, and summer sessions.

## Round Rock Campus

www.rrc.txstate.edu (<http://www.rrc.txstate.edu>)  
T: 512.716.4001 F: 512.716.4110

In 1998, as the lead institution, Texas State joined forces with other area universities and colleges to establish the Round Rock Higher Education Center, now known as Texas State University Round Rock Campus (RRC). In 2005, Texas State opened the Round Rock Campus on 101 acres and offers bachelor's and master's programs in Williamson County.

Texas State is addressing the educational needs of North Austin and the Central Texas area at the RRC. Located at 1555 University Boulevard in northeast Round Rock, the RRC offers small class size as well as supportive, engaging faculty and staff in a state-of-the-art collegiate environment. The RRC provides the upper level coursework in select bachelor's degrees, as well as several, post baccalaureate certificates and master's degree programs. At the undergraduate level, students transfer hours to the RRC from a community college, another university or the San Marcos Campus. Students may also complete some lower level courses in online classes or via Texas State Correspondence. Round Rock students pay the same tuition as those attending in San Marcos, but certain fees may be waived.

The RRC offers the following undergraduate degree programs:

- Bachelor of Applied Arts and Sciences, major in Applied Arts and Sciences
- Bachelor of Arts, major in Computer Science



- Bachelor of Arts, major in Mass Communication
- Bachelor of Arts, major in Psychology
- Bachelor of Business Administration, major in Management
- Bachelor of Science, major in Interdisciplinary Studies (Teacher Certification in English as a Second Language Generalist, Grades EC-6)
- Bachelor of Science, major in Computer Science
- Bachelor of Science in Criminal Justice, major in Criminal Justice Law Enforcement
- Bachelor of Science in Nursing, major in Nursing
- Bachelor of General Studies, major in General Studies

To be eligible to register for Texas State classes at the RRC, students must have completed their sophomore year or at least 45 hours from the prescribed degree plans above. Students who intend to complete the junior and senior level classes at RRC must submit the same admission documents and meet the same admission requirements as any potential Texas State University student. After admission, however, the procedures are different for the RRC.

It is, therefore, very important to follow the Getting Started procedures listed on the RRC website at [www.rrc.txstate.edu](http://www.rrc.txstate.edu) (<http://www.rrc.txstate.edu>).

## Academic Services

The Assistant Vice President for Academic Services and units (Testing, Research Support, and Evaluation Center [TREC], Academic Testing for Students with Disabilities [ATSD], and Student Learning Assistance Center [SLAC]) reporting to this office provide supplementary, essential services to students, faculty, and administration at Texas State. Specifically the units provide timely and high quality assistance to faculty and administration in processing and analysis of assessment data, and address specific student needs: administration of specific credit and non-credit testing; provision of institutional testing for students with disabilities; provision of supplementary instruction and enhancement of student academic performance, especially among the undergraduate population; and coordination of the undergraduate general education core curriculum.

## Student Learning Assistance Center

Alkek Library 411

T: 512.245.2515 F: 512.245.3002

[www.txstate.edu/slac](http://www.txstate.edu/slac) (<http://www.txstate.edu/slac>)

Texas State's Student Learning Assistance Center (SLAC) provides a wide range of academic support programs. Whether students are seeking help with course content, study skills, or test preparation, SLAC provides a variety of services including a walk-in tutoring lab, the Tutor Corps, Supplemental Instruction, campus presentations, and online services.

The SLAC Learning Lab provides academic assistance in accounting; sciences such as physics, biology, and chemistry; English; statistics; computer information systems; history; philosophy; languages such as Spanish; and a number of math courses. The Lab also contains study materials, handouts, and computer-assisted instructional software on a wide range of topics and levels, from correcting comma splices to preparing for graduate school. In addition to the Learning Lab, SLAC also houses Texas State's Tutor Corps, a veteran-to-veteran tutoring initiative providing academic support in a variety of courses.

Students may also visit SLAC for assistance in preparing for the admissions tests for graduate (GRE), law (LSAT), and business (GMAT) colleges as well as local tests such as the School of Journalism and Mass Communication's Punctuation, Usage, and Grammar (PUG) exam.

Supplemental Instruction, a nontraditional approach to collaborative learning, provides structured group study for students in historically difficult courses. Supplemental Instruction Leaders (SI's) act as role models and facilitate multiple study sessions per week in order to assist students, not only with course content, but also with the development of positive study skills and habits.

SLAC staff members also provide informational and interactive presentations on test-taking and anxiety management, learning styles, time management, note-taking, and other topics. Upon request, SLAC's staff will design specialized programs on study skills and academic improvement to fit the needs of a campus club, organization, or professor. In addition, SLAC works to facilitate the College Note-Taking session of BOBCAT Preview by showing incoming freshmen proper techniques and giving tips for successfully negotiating a college lecture.

SLAC also provides Texas State students with a number of online resources. By simply visiting [www.txstate.edu/slac](http://www.txstate.edu/slac) (<http://www.txstate.edu/slac>), students can access the Learning Lab's tutoring schedule and hours, times and locations of Supplemental Instruction sessions, information regarding becoming a lab tutor or SI Leader, content area handouts, and test preparation materials. SLAC also maintains an Online Writing Lab (OWL), providing tutoring in an electronic format accessible via email.

## Testing, Research-Support and Evaluation Center (TREC)

Commons Hall Ground Floor

T: 512.245.2276 F: 512.245.2903

[www.txstate.edu/trec](http://www.txstate.edu/trec) (<http://www.txstate.edu/trec>)

The Testing, Research Support & Evaluation Center (TREC) includes a testing center offering a variety of academic tests, including:

1. TSI Assessment
2. THEA IBT (internet-based)
3. TEAS V (pre-nursing assessment)
4. Punctuation, Usage and Grammar (PUG)
5. CLEP
6. Departmental Examinations-for-Credit
7. Course exams for Texas State correspondence courses
8. Proctored exams for other institutions
9. DSST exams

Note: Texas State University does not generally accept DSST exams for credit (with the possible exception of the Applied Arts and Sciences program in the Department of Occupational, Workforce, and Leadership Studies.)

## Credit-by-Examination

Credit may be earned by achieving a sufficient score (as determined by the relevant academic department of Texas State University) on any of several exams and submitting official score reports to the Testing, Research Support, and Evaluation Center (TREC), or by submitting

a transcript from another college or university to Undergraduate Admissions documenting credits awarded there through examination.

Sufficient scores on the following examinations may be applied for credit:

1. College Level Examination Program (CLEP),
2. College Board Advanced Placement Examination Program (AP),
3. International Baccalaureate Program (IB), and
4. certain established departmental examinations (administered by TREC or by the relevant academic department)

Credit established in this manner through TREC will be recorded as “credit only” (CR) on the transcript and will not affect the GPA, except that Texas State University recognizes superior scores for CLEP exams in French, German, and Spanish language by awarding letter grades of A or B according to the Credit & Grade Awarding Table (<http://tllg.net/Zbzzr>). Letter grades for the French, German, and Spanish language CLEP exams are optional, and may be recorded as CR at the student’s request.

Evidence of credit by any examination must be evaluated by TREC before it can be entered on a transcript. More detailed materials on this and other TREC programs are available at the TREC website, [www.txstate.edu/trec/](http://www.txstate.edu/trec/) (<http://www.txstate.edu/trec/>).

Credit earned by exam satisfies degree requirements in the same way as credit earned by passing courses does except that it does not count as credit earned in residence

## Academic Testing for Students with Disabilities

Academic Testing for Students with Disabilities (ATSD) is the office within TREC that provides academic testing services (course exams and quizzes) for students who are currently registered with and approved by the Office of Disability Services (ODS) to receive accommodations when testing. Some examples of testing accommodations provided by ATSD include extended time, reduced distraction environment, use of a computer, and use of a reader and/or scribe.

Note that before a student can sign up to take a test at ATSD, the need for testing accommodations must be approved by ODS, and only those accommodations designated by ODS will be provided. ATSD works closely with ODS and the other parts of TREC to provide the most secure, up-to-date, and reduced-distraction testing environment possible to all students registered with ODS.

## General Education Core Curriculum

In order to acquire the fundamental skills and cultural background that are the marks of an educated person, all undergraduate students at Texas State complete a 42 semester credit hour program of general education core curriculum courses, which serves as the common foundation for all majors and accounts for about 35 percent of the approximately 120 semester credit hours required for a bachelor’s degree.

At the end of the bachelor’s program, the student is prepared not only in a departmental field of study, but also in the general abilities of critical thinking, communication, empirical and quantitative skills, teamwork, personal responsibility and social responsibilities that remain universally useful skills in a rapidly changing world. Texas State graduates have

the raw materials to build solutions as they fulfill career and civic responsibilities.

A list of courses and course choices that fulfill the general education core curriculum is given below. In many cases, the academic plans of various Texas State colleges, schools, departments, degrees, majors, and certifications modify or exceed these standards, so students are urged to carefully examine all sections of this catalog, which apply to the academic program of their choice.

Students transferring from Texas public institutions of higher education may have to fulfill only those portions of the general education core curriculum not completed at their previous institutions. Students from private or out-of-state institutions or those who took coursework before this core curriculum was put into place (Fall 2014), will have their coursework evaluated to determine if it is equivalent to that required at Texas State.

For all undergraduate students, specific major requirements may override those in the core curriculum. Those who have completed the core requirement for college math, for instance, may have to complete Calculus if such is required by their major. In all cases, the major and core requirements applicable are those in the catalog year to which the student is assigned. A list of general education core requirements at all Texas public institutions of higher education is available online at <http://www.thecb.state.tx.us/apps/tcc/>.

## General Education Core Curriculum Components

### Communication (6 semester credit hours) Code 010

Select two of the following:

ENG 1310	College Writing I
ENG 1320	College Writing II
HON 2301A	Writing to Change the World
HON 2301B	Writing Yourself into Academia: Creating Portraiture

### Mathematics (3 semester credit hours) Code 020

Select one of the following:

MATH 1312	College Statistics and Algebra
MATH 1315	College Algebra <sup>1</sup>
MATH 1316	Survey of Contemporary Mathematics
MATH 1317	Plane Trigonometry
MATH 1319	Mathematics for Business and Economics I
MATH 1329	Mathematics for Business and Economics II
MATH 2321	Calculus for Life Sciences I
MATH 2417	Pre-Calculus Mathematics
MATH 2471	Calculus I
HON 2302A	Elementary Number Theory
HON 2302B	Graph Theory and Applications

<sup>1</sup> See Department of Mathematics section of this catalog for minimum test scores and/or prerequisites required to enroll in these courses. Students may have to complete MATH 1300 or MATH 1311 before enrolling in MATH 1315.

## Life and Physical Sciences (6 semester credit hours) Code 030

Select two of the following:

ANTH 2414	Biological Anthropology
BIO 1320	Modern Biology I, Molecules, Cells, and Physiology
BIO 1330	Functional Biology
BIO 1331	Organismal Biology
BIO 1421	Modern Biology II, Organisms, Evolution, and Environment
CHEM 1310	Introductory Chemistry for Non-Science Majors <sup>1</sup>
CHEM 1341	General Chemistry I <sup>1</sup>
CHEM 1342	General Chemistry II
CHEM 1430	Chemistry for Non-Science Majors
GEO 1305	Meteorology
GEOL 1410	Physical Geology
GEOL 1420	Historical Geology
PHYS 1310	Elementary Physics
PHYS 1320	Elementary Physics
PHYS 1315	General Physics I
PHYS 1325	General Physics II
PHYS 1340	Astronomy: Solar System
PHYS 1350	Astronomy: Stars and Galaxies
PHYS 1430	Mechanics
PHYS 2425	Electricity and Magnetism
HON 2303A	Teaching Physical Science to Children
HON 2303B	Astronomy in Art, History, and Literature
HON 2303C	Building a Greener Future: One Home at a Time

<sup>1</sup> Students will not receive general education core curriculum credit for both CHEM 1310 and CHEM 1341.

## Language, Philosophy, and Culture (3 semester credit hours) Code 040

Select one of the following:

PHIL 1305	Philosophy and Critical Thinking
PHIL 1320	Ethics and Society
HON 2304A	The Meaning of Death
HON 2304B	Eating Animals in America: Historical and Philosophical Perspectives
HON 2304C	Nonviolence and Sustainable Social Change

## Creative Arts (3 semester credit hours) Code 050

Select one of the following:

ART 2313	Introduction to Fine Arts
DAN 2313	Introduction to Fine Arts
MU 2313	Introduction to Fine Arts
TH 2313	Introduction to Fine Arts
HON 2305A	African American Popular Music: Society, Politics, and Culture
HON 2305B	Women and Texas Music
HON 2305C	Italy and Arts of the Islamic World

## American History (6 semester credit hours) Code 060

Select two of the following:

HIST 1310	History of the United States to 1877
HIST 1320	History of the United States, 1877 to Date
HON 2306A	American History Through Memoirs
HON 2306B	Baseball and the American Experience
HON 2306C	America in the 1960s: A History of Movements and Ideas
HON 2306D	Witches, Whores, Murderers & Thieves: Capital Crime in Early America
HON 2306E	Early American History Through Biography

## Government/Political Science (6 semester credit hours) Code 070

Select two of the following:

POSI 2310	Principles of American Government
POSI 2320	Functions of American Government
HON 2307A	Democracy in America
HON 2307B	Contemporary Issues in American Politics

## Social and Behavioral Sciences (3 semester credit hours) Code 080

Select one of the following:

ANTH 1312	Cultural Anthropology
ECO 2301	Principles of Economics
ECO 2314	Principles of Microeconomics
GEO 1310	World Geography
PSY 1300	Introduction to Psychology
SOCI 1310	Introduction to Sociology
PFW 1301	Social and Behavioral Dimensions of Physical Fitness and Wellness
HON 2308A	Economic Anthropology

## Texas State Area Option (6 semester credit hours) Code 090

Select one of the following:

COMM 1310	Fundamentals of Human Communication
HON 2309B	Re-Humanizing Communication
HON 2309F	CS Lewis: Chronicles of a Master Communicator
HON 2309L	Communication and Consumer Culture

And select one of the following:

ENG 2310	British Literature before 1785
ENG 2320	British Literature since 1785
ENG 2330	World Literature before 1600
ENG 2340	World Literature since 1600
ENG 2359	US Literature before 1865
ENG 2360	US Literature since 1865
HON 2309A	Origins of Civilization
HON 2309C	Great Ideas: Humanities I
HON 2309D	Magic Realism in the Works of Gabriel Garcia Marquez
HON 2309E	Preserving Humanity in the Face of Conflict: The War Story Genre
HON 2309G	Nature and the Quest for Meaning
HON 2309H	Great Ideas: Humanities II
HON 2309I	Plotting the American Experience

HON 2309J	Memoirs from Lives off the Neurotypical Map
HON 2309K	The Death Plot: Fiction, Memoirs, Poems
HON 2309M	From Jay-Z to Kendrick Lamar: Politics, Power, and Identity in Hip Hop Literature

## Texas Common Course Numbering

Under Texas Education Code 61.832, the Texas Common Course Numbering System (TCCNS) was developed to facilitate transfer of general academic courses between Texas public institutions. Common courses are included in the Community College General Academic Course Guide Manual, published by the Texas Higher Education Coordinating Board. Common course numbers may be used to determine how freshman and sophomore level courses transfer between Texas public institutions.

The common course number has a standardized four-letter prefix followed by a four-digit number, for example, ENGL 1301. The four-letter prefix identifies the subject area. Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours a student will earn upon completion of the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

In the course description sections of the catalog, the common course number is shown in parentheses, for example, (ENGL 1301). The following is a list of all the common course numbers currently adopted by Texas State. The courses that fulfill Texas State's general education core curriculum requirements are designated with an asterisk.

TCCN Course	Texas State Course
ACCT 2301	ACC 2361
ACCT 2302	ACC 2362
AGRI 1131	AG 1110
AGRI 1307	AG 2313
AGRI 1309	AG 2390
AGRI 1315	AG 2379
AGRI 1419	AG 1445
AGRI 2303	AG 2373
AGRI 2317	AG 2383
ANTH 2351 *	ANTH 1312
ANTH 2401 *	ANTH 2414
ARAB 1411	ARAB 1410
ARAB 1412	ARAB 1420
ARAB 2311	ARAB 2310
ARAB 2312	ARAB 2320
ARTS 1303	ARTH 2301
ARTS 1304	ARTH 2302
ARTS 1311	ARTF 1301
ARTS 1312	ARTF 1303
ARTS 1316	ARTF 1302
ARTS 2311	ARTF 1304
ARTS 2316	ARTS 2351
ARTS 2323	ARTS 2321
ARTS 2326	ARTS 2381

ARTS 2333	ARTS 2371
ARTS 2336	ARTS 2331
ARTS 2341	ARTS 2341
ARTS 2346	ARTS 2311
ARTS 2366	ARTS 2391
BCIS 2316	CIS 2324
BIOL 1106	BIO 1130
BIOL 1107	BIO 1131
BIOL 1306 *	BIO 1330
BIOL 1307 *	BIO 1331
BIOL 1308 *	BIO 1320
BIOL 1322	NUTR 2360
BIOL 1409 *	BIO 1421
BIOL 2404	BIO 2430
BIOL 2416	BIO 2450
BIOL 2401	BIO 2451
BIOL 2402	BIO 2452
BIOL 2420	BIO 2440
BIOL 2421	BIO 2400
BUSI 2301	BLAW 2361
CHEM 1111	CHEM 1141
CHEM 1112	CHEM 1142
CHEM 1305 *	CHEM 1310
CHEM 1311 *	CHEM 1341
CHEM 1312 *	CHEM 1342
CHEM 1407 *	CHEM 1430
CHEM 2123	CHEM 2141
CHEM 2125	CHEM 2142
CHEM 2323	CHEM 2341
CHEM 2325	CHEM 2342
CHIN 1411	CHI 1410
CHIN 1412	CHI 1420
CHIN 2311	CHI 2310
CHIN 2312	CHI 2320
COMM 1307	MC 1301
COMM 2311	MC 1313
COSC 1301	CIS 1323
COSC 1300	CS 1308
COSC 1336	CS 1319
COSC 1437	CS 1428
COSC 2336	CS 2308
COSC 2325	CS 2318
CRIJ 1301	CJ 1310
CRIJ 1306	CJ 2350
CRIJ 1310	CJ 2360
CRIJ 2313	CJ 2355
CRIJ 2328	CJ 2310
DANC 1128	DAN 1170
DANC 1122	PFW 1180J
DANC 1141	DAN 1180
DANC 1141	PFW 1180D
DANC 1142	PFW 1180E

DANC 1145	DAN 1190	HIST 2322	HIST 2312
DANC 1145	PFW 1180G	HUMA 1315 *	ART 2313
DANC 1148	PFW 1180H	HUMA 1315 *	DAN 2313
DANC 1147	DAN 1160	HUMA 1315 *	MU 2313
DANC 1147	PFW 1180A	HUMA 1315 *	TH 2313
DANC 1148	PFW 1180B	ITAL 1411	ITAL 1410
DANC 1201	DAN 2210	ITAL 1412	ITAL 1420
DANC 2145	PFW 1180I	ITAL 2311	ITAL 2310
DANC 2147	PFW 1180C	ITAL 2312	ITAL 2320
DRAM 1120	TH 2111	JAPN 1411	JAPA 1410
DRAM 1322	TH 1354	JAPN 1412	JAPA 1420
DRAM 1330	TH 1358	JAPN 2311	JAPA 2310
DRAM 1351	TH 1364	JAPN 2312	JAPA 2320
DRAM 1352	TH 1365	MATH 1314 *	MATH 1315
DRAM 2336	TH 1340	MATH 1316 *	MATH 1317
DRAM 2351	TH 2354	MATH 1324 *	MATH 1319
ECON 1301	ECO 2301	MATH 1325 *	MATH 1329
ECON 1303	CA 1341	MATH 1332 *	MATH 1316
ECON 2301	ECO 2315	MATH 1342 *	MATH 1312
ECON 2302 *	ECO 2314	MATH 1350	MATH 2311
ENGL 1301 *	ENG 1310	MATH 1351	MATH 2312
ENGL 1302	ENG 1320	MATH 1342	MATH 2328
ENGL 2322 *	ENG 2310	MATH 2305	MATH 2358
ENGL 2323 *	ENG 2320	MATH 2313 *	MATH 2321
ENGL 2327 *	ENG 2359	MATH 1342	MATH 2328
ENGL 2328 *	ENG 2360	MATH 2412 *	MATH 2417
ENGL 2332 *	ENG 2330	MATH 2413 *	MATH 2471
ENGL 2333 *	ENG 2340	MATH 2414	MATH 2472
ENGR 2305	TECH 2370	MUSI 1104	MU 2123
FREN 1411	FR 1410	MUSI 1211	MU 1211
FREN 1412	FR 1420	MUSI 1212	MU 1213
FREN 2311	FR 2310	MUSI 1216	MU 1210
FREN 2312	FR 2320	MUSI 1217	MU 1212
GEOG 1302	GEO 1309	MUSI 1301	MU 1312
GEOG 1303 *	GEO 1310	MUSI 1303	MU 2310
GEOL 1147	GEO 1105	MUSI 1307	MU 2303
GEOL 1347 *	GEO 1305	MUSI 2160	MU 2141
GEOL 1403 *	GEOL 1410	MUSI 2211	MU 2261
GEOL 1404 *	GEOL 1420	MUSI 2212	MU 2263
GERM 1411	GER 1410	MUSI 2216	MU 2260
GERM 1412	GER 1420	MUSI 2217	MU 2262
GERM 2311	GER 2310	PHED 1164	PFW 1101
GERM 2312	GER 2320	PHED 1164	PFW 1110A
GOVT 2305 *	POSI 2320	PHED 1164	PFW 1110B
GOVT 2306 *	POSI 2310	PHED 1164	PFW 1110C
HECO 1320	FM 1332	PHED 1164	PFW 1110D
HECO 2311	FM 1330	PHED 1164	PFW 1110E
HIST 1301 *	HIST 1310	PHED 1164	PFW 1110F
HIST 1302 *	HIST 1320	PHED 1164	PFW 1110G
HIST 2311	HIST 2310	PHED 1164	PFW 1110H
HIST 2312	HIST 2320	PHED 1164	PFW 1110K
HIST 2321	HIST 2311	PHED 1164	PFW 1125A



PHED 1164	PFW 1130A	PHIL 2316	PHIL 2311
PHED 1164	PFW 1130B	PHIL 2317	PHIL 2312
PHED 1164	PFW 1135A	PHYS 1101	PHYS 1115
PHED 1164	PFW 1135B	PHYS 1102	PHYS 1125
PHED 1164	PFW 1140A	PHYS 1105	PHYS 1110
PHED 1164	PFW 1140B	PHYS 1111	PHYS 1140
PHED 1164	PFW 1140C	PHYS 1301 *	PHYS 1315
PHED 1164	PFW 1140D	PHYS 1302 *	PHYS 1325
PHED 1164	PFW 1140E	PHYS 1305 *	PHYS 1310
PHED 1164	PFW 1140F	PHYS 1307 *	PHYS 1320
PHED 1164	PFW 1140G	PHYS 1311 *	PHYS 1350
PHED 1164	PFW 1140H	PHYS 1312 *	PHYS 1340
PHED 1164	PFW 1140I	PHYS 2425 *	PHYS 1430
PHED 1164	PFW 1149	PHYS 2426 *	PHYS 2425
PHED 1164	PFW 1150B	PHYS 2427	PHYS 2435
PHED 1164	PFW 1150C	PORT 1411	POR 1410
PHED 1164	PFW 1150D	PORT 1412	POR 1420
PHED 1164	PFW 1150E	PORT 2311	POR 2310
PHED 1164	PFW 1150F	PORT 2312	POR 2320
PHED 1164	PFW 1150G	PSYC 2301 *	PSY 1300
PHED 1164	PFW 1154	PSYC 2317	PSY 2301
PHED 1164	PFW 1154B	PSYC 2306	PSY 2311
PHED 1164	PFW 1154C	SGNL 1401	ASL 1410
PHED 1164	PFW 1155A	SGNL 1402	ASL 1420
PHED 1164	PFW 1155B	SGNL 2301	ASL 2310
PHED 1164	PFW 1155C	SGNL 2302	ASL 2320
PHED 1164	PFW 1155D	SOCI 1301 *	SOCI 1310
PHED 1164	PFW 1155E	SOCI 1306	SOCI 2320
PHED 1164	PFW 1155G	SOCW 2361	SOWK 1350
PHED 1164	PFW 1155H	SPAN 1411	SPAN 1410
PHED 1164	PFW 1155I	SPAN 1412	SPAN 1420
PHED 1164	PFW 1155J	SPAN 2311	SPAN 2310
PHED 1164	PFW 1155K	SPAN 2312	SPAN 2320
PHED 1164	PFW 1155M	SPCH 1144	COMM 2111
PHED 1164	PFW 1155N	SPCH 1311 *	COMM 1310
PHED 1164	PFW 1160B	SPCH 1315	COMM 2338
PHED 1164	PFW 1160C	SPCH 1318	COMM 2315
PHED 1164	PFW 1165A	SPCH 1342	COMM 1340
PHED 1164	PFW 1165C	SPCH 2333	COMM 2330
PHED 1164	PFW 1165D	SPCH 2341	COMM 2326
PHED 1164	PFW 1165E	BIOL 2401	BIO 2451
PHED 1164	PFW 1190A	BIOL 2402	BIO 2452
PHED 1164	PFW 1190B	BIOL 2401	BIO 2451
PHED 1164	PFW 1190C		
PHED 1164	PFW 1190E		
PHED 1304	H ED 1310		
PHED 1306	H ED 2354		
PHED 1336	REC 2335		
PHED 1346	H ED 2338		
PHIL 1301 *	PHIL 1305		
PHIL 2303	PHIL 2330		
PHIL 2306 *	PHIL 1320		

\* Courses that fulfill Texas State's general education core curriculum requirements.

## Degree and Program Information

Texas State University offers a full range of programs in applied arts, business administration, education, the fine arts, general studies, health professions, the liberal arts, sciences, and engineering. This section of the catalog gives basic information about the undergraduate degrees, majors, minors, and alternative curricula available at Texas

State. Certificate and degree programs are approved in accordance with guidelines provided by the Southern Association of Colleges and Schools Commission on Colleges, the Texas Higher Education Coordinating Board and The Texas State University System.

All undergraduate degrees conferred by Texas State University are based on the satisfactory completion of the following components:

1. Uniform undergraduate degree requirements, which apply to all Texas State undergraduates regardless of their major. These requirements include:
  - a. US 1100 (required for students who enter with fewer than 16 semester credit hours completed after high school graduation),
  - b. Core Curriculum requirement,
  - c. Foreign Language Proficiency requirement,
  - d. Writing Intensive requirement, and
  - e. Residency requirement.
2. College-specific degree requirements, which include:
  - a. Major requirements,
  - b. Minor requirements, if applicable,
  - c. Upper-division hour requirements,
  - d. Free electives, if applicable, and
  - e. Grade-point average requirements.
3. Specific degree or program requirements, if applicable.

## Special Requirements for the Bachelor of Arts

The following requirements apply to all Bachelor of Arts programs.

### Minor Requirement

A minor is required and may be selected from any of the Texas State approved minors.

### Science Requirement

In addition to completing the mathematics and the life and physical sciences requirements of the general education core curriculum, students must complete one additional science course (3-4 hours) from anthropology (biological anthropology only), biology, chemistry, computer science, geography (physical geography only), geology, mathematics, philosophy (logic only), physics.

### Modern Language Requirement

An intermediate level proficiency demonstrated by successful completion of American Sign Language, Arabic, French, German, Italian, Japanese, Latin, Portuguese, or Spanish (2310 and 2320) is required. Most students will need to complete 1410 and 1420 as prerequisites before attempting 2310.

Select one of the following:

ASL 2310 & ASL 2320	Intermediate American Sign Language I and Intermediate American Sign Language II
ARAB 2310 & ARAB 2320	Intermediate Arabic I and Intermediate Arabic II
CHI 2310 & CHI 2320	Intermediate Chinese I and Intermediate Chinese II

FR 2310 & FR 2320	Intermediate French I and Intermediate French II
GER 2310 & GER 2320	Intermediate German I and Intermediate German II
ITAL 2310 & ITAL 2320	Intermediate Italian I and Intermediate Italian II
JAPA 2310 & JAPA 2320	Intermediate Japanese I and Intermediate Japanese II
LAT 2310 & LAT 2320	Intermediate Latin and Intermediate Latin
POR 2310 & POR 2320	Intermediate Portuguese I and Intermediate Portuguese II
SPAN 2310 & SPAN 2320	Intermediate Spanish I and Intermediate Spanish II

## English Literature Requirement

Select two of the following:

6

ENG 2310	British Literature before 1785
ENG 2320	British Literature since 1785
ENG 2330	World Literature before 1600
ENG 2340	World Literature since 1600
ENG 2359	US Literature before 1865
ENG 2360	US Literature since 1865

Note: Students who earn a "B" or "A" in the first sophomore literature course may choose to take an advanced literature course (3000 or 4000 level) instead of a second sophomore literature course.

## Special Requirements for the Bachelor of Science

A **minor** is required and may be selected from any of the Texas State approved minors.

## Pre-Professional Curricula

Students preparing to study dentistry, law, medicine, pharmacy, physical therapy, or veterinary medicine should enroll in the degree plan as suggested by the advisors listed below. Before each registration, the student should consult with an academic advisor.

### Dentistry

The Dental Early Admission Program (DEAP) allows a qualified student to apply credits earned during Dental School to an undergraduate degree at Texas State, saving a year's coursework while earning both a bachelor's degree from Texas State and a dental degree from The University of Texas Health Science Center at San Antonio. A DEAP student enters and completes an accelerated undergraduate curriculum at Texas State including a minimum of 93 semester credit hours which can usually be completed in 3 years, 60 of these hours must be earned in residence at Texas State. Advanced placement and dual credit hours shall not be counted in the minimum of 60 hours in residence at Texas State. For more information contact the Department of Biology pre-health advisor, [www.bio.txstate.edu/prehealthadvising](http://www.bio.txstate.edu/prehealthadvising) (<http://www.bio.txstate.edu/prehealthadvising>).

## Law

Accredited law schools in the United States require at least the following from applicants prior to admission:

1. a bachelor's degree,
2. above average grades, and
3. a satisfactory score on the Law School Admission Test (LSAT).

Pre-law students are urged to meet with the Student Learning Assistance Center (SLAC) Director, Dr. Carol Dochen, the sole/coordinating Law School Admission Council (LSAC) prelaw advisor for Texas State University and her colleague, René LeBlanc, also an LSAC prelaw advisor. Together they help prelaw students create individualized Law School Admission Test (LSAT) preparation plans using SLAC materials, research and select appropriate law schools, and complete personal statements, addenda, and resumes for their Credential Assembly Service (CAS) file. Prewlaw and appointment scheduling information are available at <http://www.txstate.edu/slac/PreLaw.html>

SLAC's prelaw advisors recommend that students considering law school seek guidance from faculty members on choosing rigorous academic courses that will help prepare them for law school, finding internship placement, for sharing their personal law school experiences, and for help locating places to gain experience with practicing attorneys.

## Medicine

Medical schools recommend an appropriate bachelor's degree and specific prerequisites for entrance. For more information contact the Department of Biology pre-health advisor, [www.bio.txstate.edu/prehealthadvising](http://www.bio.txstate.edu/prehealthadvising) (<http://www.bio.txstate.edu/prehealthadvising>).

## Pharmacy

Pharmacy is a six-year program, two years of which may be taken at Texas State. The seven pharmacy schools in Texas (Texas A&M Health Science Center Irma Lerma Rangel College of Pharmacy, Texas Southern University College of Pharmacy and Health Sciences, Texas Tech University Health Sciences Center School of Pharmacy, University of Houston College of Pharmacy, University of the Incarnate Word Feik School of Pharmacy, The University of Texas at Austin College of Pharmacy, and University of North Texas Health Science Center) all require two years of prerequisite courses in chemistry, biology, mathematics, physics, English, humanities and social sciences, but the exact courses required vary by school. Consequently, it is imperative that pre-pharmacy students consult with an advisor prior to and during their pre-pharmacy program. For more information contact the Department of Chemistry and Biochemistry.

## Physical Therapy

The physical therapy profession requires a post-baccalaureate degree in order to practice; Texas State offers a Doctor of Physical Therapy degree program. For more information, contact the Department of Physical Therapy or visit [www.health.txstate.edu/pt](http://www.health.txstate.edu/pt) (<http://www.health.txstate.edu/pt>). The Department of Physical Therapy does not require a specific undergraduate degree in order to gain entrance into their program. However, the Department of Health and Human Performance (HHP) offers an undergraduate degree program that will prepare students to enter the application process for a physical therapy program. The main focus of this pre-professional program is to provide a strong theoretical background utilizing courses across multiple disciplines, including Athletic Training and Exercise and Sports Science, for admittance into a physical therapy program. Coursework will also help prepare students for professional degree programs in related fields, e.g.,

occupational therapy, chiropractor, and physician assistant. Because the prerequisites amongst professional programs vary, students should seek specific prerequisites for each program of interests.

See the HHP Department section of the catalog for specific course requirements in the degree plan for the Exercise and Sports Science major with a concentration in Pre-Physical Therapy.

## Veterinary Medicine

The only College of Veterinary Medicine in Texas is at Texas A&M University. Prior to admission, students must complete at least 64 hours of coursework, which constitutes a pre-veterinary program. At Texas State, all students must choose a major in one of the 4-year bachelor's programs. While any major is acceptable, majors in Agriculture Animal Science, Biology or Chemistry most nearly parallel the courses required in the pre-veterinary program.

Advising for students at Texas State who wish to pursue the pre-professional curriculum in veterinary medicine is available by contacting the pre-veterinary advisor in the Department of Agriculture at Texas State, or by appointment with the College of Veterinary Medicine at Texas A&M University.

## Degrees

Bachelor of Applied Arts and Sciences (B.A.A.S.)  
 Bachelor of Arts (B.A.)  
 Bachelor of Arts in International Studies (B.A.I.S.)  
 Bachelor of Business Administration (B.B.A.)  
 Bachelor of Exercise and Sports Science (B.E.S.S.)  
 Bachelor of Fine Arts (B.F.A.)  
 Bachelor of General Studies (B.G.S.)  
 Bachelor of Health and Wellness Promotion (B.H.W.P.)  
 Bachelor of Healthcare Administration (B.H.A.)  
 Bachelor of Music (B.M.)  
 Bachelor of Public Administration (B.P.A.)  
 Bachelor of Science (B.S.)  
 Bachelor of Science in Agriculture (B.S.A.G.)  
 Bachelor of Science in Clinical Laboratory Science (B.S.C.L.S.)  
 Bachelor of Science in Communication Disorders (B.S.C.D.)  
 Bachelor of Science in Criminal Justice (B.S.C.J.)  
 Bachelor of Science in Health Information Management (B.S.H.I.M.)  
 Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.)  
 Bachelor of Science in Nursing (B.S.N.)  
 Bachelor of Science in Radiation Therapy (B.S.R.T.)  
 Bachelor of Science in Recreational Administration (B.S.R.A.)  
 Bachelor of Science in Respiratory Care (B.S.R.C.)  
 Bachelor of Science in Technology (B.S.T.)  
 Bachelor of Social Work (B.S.W.)

## Undergraduate Majors at Texas State

The table below lists all undergraduate majors/degrees as they would appear on a diploma and transcript. Please note that a number of these programs have additional emphases, specializations, or concentrations available.

Major	Degree	Minimum Hours	Minor	Teacher Cert.
Accounting	B.B.A.	120		
Advertising and Mass Communication	B.S.	120	Required	

Agriculture	B.S.A.G.	120		Optional
Agriculture Animal Science	B.S.A.G.	120		
Agriculture Business and Management	B.S.A.G.	120		
Anthropology	B.A.	120	Required	
Anthropology	B.S.	120	Required	
Applied Arts and Sciences	B.A.A.S.	120		Optional
Applied Mathematics	B.S.	120	Required	
Applied Sociology	B.S.	120	Required	
Aquatic Biology	B.S.	120	Required	
Art	B.A.	120	Required	
Art History	B.A.	120	Required	
Athletic Training	B.S.	120		
Biochemistry	B.S.	120	Required	
Biology	B.S.	120	Required	Optional
Chemistry	B.S.	120	Required	Optional
Clinical Laboratory Science	B.S.C.L.S.	120		
Communication Design	B.F.A.	120		
Communication Disorders	B.S.C.D.	120		
Communication Studies	B.A.	120	Required	Optional
Computer Information Systems	B.B.A.	120		
Computer Science	B.A.	120	Required	Optional
Computer Science	B.S.	120	Required	Optional
Concrete Industry Management	B.S.	120	Required	
Construction Science and Management	B.S.	120	Required	
Consumer Affairs	B.S.F.C.S.	120	Required	Optional
Criminal Justice	B.S.C.J.	120		
Criminal Justice Corrections	B.S.C.J.	120		
Criminal Justice Law Enforcement	B.S.C.J.	120		
Dance	B.F.A.	120		Optional
Digital Media Innovation and Mass Communication	B.S.	120	Required	
Economics	B.A.	120	Required	
Economics	B.B.A.	120		
Electrical Engineering	B.S.	136	Required	
Electronic Media and Mass Communication	B.S.	120	Required	
Engineering Technology	B.S.T.	120		
English	B.A.	120	Required	Optional
Exercise and Sports Science	B.E.S.S.	120		Optional
Family and Child Development	B.S.F.C.S.	120		Optional
Fashion Merchandising	B.S.F.C.S.	120	Required	
Finance	B.B.A.	120		
French	B.A.	120	Required	Optional
General Studies	B.G.S.	120	Required	
Geographic Information Science	B.S.	120	Required	
Geography	B.A.	120	Required	
Geography	B.S.	120	Required	Optional
Geography Resource and Environmental Studies	B.S.	120	Required	
Geography Urban and Regional Planning	B.S.	120	Required	
Geography Water Resources	B.S.	120	Required	
German	B.A.	120	Required	Optional
Health and Fitness Management	B.E.S.S.	120	Required	
Health and Wellness Promotion	B.H.W.P.	120	Required	Optional
Health Information Management	B.S.H.I.M.	120		
Healthcare Administration	B.H.A.	120		
History	B.A.	120	Required	Optional
Industrial Engineering	B.S.	135	Required	
Interdisciplinary Science	B.S.	132	Required	Yes
Interdisciplinary Studies	B.S.	121		Yes
Interior Design	B.S.F.C.S.	120		
International Relations	B.A.I.S.	120		
International Studies	B.A.I.S.	120		
Journalism and Mass Communication	B.S.	120	Required	
Management	B.B.A.	120		Optional
Manufacturing Engineering	B.S.	132	Required	
Marketing	B.B.A.	120		
Mass Communication	B.A.	120	Required	
Mathematics	B.A.	120	Required	
Mathematics	B.S.	120	Required	Optional
Microbiology	B.S.	120	Required	
Music	B.A.	120	Required	
Music Studies	B.M.	129		Optional
Musical Theatre	B.F.A.	123		
Nursing	B.S.N.	120		
Nutrition and Foods	B.S.F.C.S.	120		Optional
Performance	B.M.	120		
Philosophy	B.A.	120	Required	
Photography	B.F.A.	120		
Physical Geography	B.S.	120	Required	
Physics	B.A.	120	Required	
Physics	B.S.	120	Required	Optional
Political Science	B.A.	120	Required	Optional
Psychology	B.A.	120	Required	
Psychology	B.S.	120	Required	
Public Administration	B.P.A.	120	Required	
Public Relations and Mass Communication	B.S.	120	Required	
Radiation Therapy	B.S.R.T.	120		
Recreational Administration	B.S.R.A.	120		
Respiratory Care	B.S.R.C.	120		
Social Work	B.S.W.	121		
Sociology	B.A.	120	Required	
Sound Recording Technology	B.S.	120	Required	

Spanish	B.A.	120	Required	Optional
Studio Art	B.F.A.	120		Optional
Technology Management	B.S.	120	Required	Optional
Theatre	B.A.	120	Required	
Theatre	B.F.A.	120		Optional
Wildlife Biology	B.S.	127		

## Minors

Minor	Minimum Hours
Aerospace Studies	19
Aging and the Life Course	18
Agriculture	19
Animal Science	19
Anthropology	20
Applied Mathematics	20
Art	24
Art History	18
Biochemistry	24
Biology	21
Business Administration	18
Chemistry	23
Coaching	22
Communication Studies	21
Computer Science	22
Consumer Affairs	18
Criminal Justice	18
Diversity Studies	18
Early Childhood Intervention	18
Economics	18
English	24
Exercise and Sports Science	25
Family and Child Development	18
Family and Consumer Sciences	18
Fashion Merchandising	18
Forensic Psychology	21
French	29
Geography	19
Geology	19
German	29
Health and Wellness Promotion	18
Health Communication	21
Health Information Management	22
Healthcare Administration	18
History	24
Horticulture	18
Honors Studies	21
International Business	18
International Studies	21
Japanese	26
Jazz	18
Journalism	18
Leadership Studies	21

Mariachi	18
Mass Communication	18
Mathematics	20
Media Studies	18
Medieval and Renaissance Studies	24
Military Science	23
Music	18
Nature and Heritage Tourism	18
Opera	20
Philosophy	18
Physics	21
Plant and Soil Science	20
Political Communication	24
Political Science	24
Psychology	18
Public Administration	24
Recreational Administration	18
Religious Studies	18
Secondary Education	21
Social Work	18
Sociology	18
Southwestern Studies	18
Spanish	29
Special Education	21
Sport Psychology	21
Studies in Popular Culture	18
Technology	18
Theatre	18
Value Studies	18
Women's Studies	18
Writing	24

## Certificates

Undergraduate Certificate Programs	Department/School	Requirements
Computer Information Systems	Computer Information Systems and Quantitative Methods	18 SCH
Environmental Interpretation	Geography	16 SCH
Geographic Information Science	Geography	19-20 SCH
Location Analysis	Geography	16-18 SCH
Water Resources Policy	Geography	16-17 SCH

## Honors College

### Dean

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[www.txstate.edu/honors](http://www.txstate.edu/honors) (<http://www.txstate.edu/honors>)



The Honors College provides a community for students from all majors. Students can take advantage of eclectic and challenging interdisciplinary courses designed by professors in fields such as:

- physics,
- mathematics,
- the humanities,
- poetry,
- business, or
- the arts.

In these small seminar-type classes, students discuss ideas and raise questions stimulated by readings, field trips, and presentations. Honors classes aim to promote interdisciplinary inquiry, creativity, and a lifetime love of learning. Through the Honors Independent Study, the Honors Contract course and the Honors Thesis, students can also design their own course of study.

The Honors College encourages students to apply for nationally and internationally competitive awards such as the Truman graduate scholarships, and Honors faculty assist students applying to graduate schools. The college offers study abroad experiences and encourages students to participate. Additionally, the Honors College participates in the Texas State “Common Experience” program through programming, art exhibits, and courses which connect to the theme.

The Honors College is housed in the historic Lampasas building, adjacent to Old Main. The space includes seminar rooms, a student computer lab, a conference room, offices for staff and student academic organizations and the Honors Coffee Forum - a large area for coffee, conversation, study, and events surrounded by the Gallery of the Common Experience art exhibits.

## Application

The Honors College accepts students on a rolling admissions basis. To apply, go to <http://www.txstate.edu/honors/work/application.html>. Entering freshmen from the top 10 percent of their graduating class, or those with a composite score of 27 on the ACT or 1200 on the SAT (Math + Verbal), are eligible to apply for admission to the college. Transfer or currently enrolled students with a GPA of at least 3.25 are also eligible to apply.

## Graduation

Students wishing to graduate in the Honors College have two avenues available for doing so:

1. the traditional Honors College route, where students complete 15 hours of honors courses, including the Honors Thesis and
2. a minor in Honors Studies, where students complete 21 hours of honors courses, including the Senior Seminar and the Honors Thesis.

All Honors College students must maintain a minimum GPA of 3.25 to remain in and to graduate from the program. Students may elect to participate in the Honors College curriculum and community without completing Honors graduation requirements.

## Program Benefits

Continuing Honors College students receive access to early registration each semester. Students may receive travel assistance from the college to present research at regional and national conferences and are eligible

for scholarships and research support awarded through the Honors College.

The Honors Thesis (a requirement to graduate in the college) allows students to design a research or creative project that they complete under the supervision of a professor from the research area. Students present their theses in an undergraduate thesis forum, and completed theses are added to the collection of Alkek Library. Students use the experience of completing an Honors Thesis in their applications to graduate school and/or applications for post graduate work.

Texas State rewards completion of the Honors College requirements with name and thesis title included in the Commencement program, a special transcript annotation, and an Honors College certificate as a supplement to the diploma. The Honors College also provides a special medallion to its graduates, especially suited for wearing at Commencement.

## Program Faculty

The Honors College builds on the strength of master teacher-scholars from across the campus, including persons who have garnered Presidential Excellence awards, Piper Professor and other state/national teaching awards, Fulbright Fellowships, and awards for their writing, research, and service contributions. Current faculty are listed on the website.

## Courses in Honors

Course listings represent the complete inventory of Honors courses. New courses in the Honors College are created continually, a process that ensures innovative, thoughtful offerings not duplicated elsewhere. Faculty members and students who participate in Honors classes represent many different academic departments and colleges from across the campus. Honors courses feature an explicitly interdisciplinary component, and all courses are, by definition, writing intensive. The courses are also discussion intensive, and students are expected to communicate orally, as well as demonstrate problem-solving skills. Many of the courses are designed to fulfill general education core requirements or advanced offerings. Recent course offerings include Storytelling in Video Games; The Voices of Eros in Poetry; Elementary Number Theory; Baseball and the American Experience; Nature and the Quest for Meaning, Public Policy for Energy, the Environment, and Global Sustainability; Entrepreneurship, Leadership, and Team-Building; C.S. Lewis: Chronicles of a Master Communicator; Urban Horticulture; Astronomy in Art, History and Literature; and Technology, Gender, and Bodies in Film, a course taught in France.

## Honors Contract Course

Designated with “Honors work included” on students’ transcript upon completion, any regular Texas State course at the 3000 or 4000 level can become an Honors Contract course with the concurrent approval of the student, faculty instructor, and Honors College. Students completing an Honors Contract course complete at least 15% work in addition to the requirements set forth in the course and must earn a ‘B’ or better in the course. Students may also request to have independent study courses in other departments count as Honors credits using the Honors Contract form.

## Departmental Honors Course

Offered in a growing number of departments, the Departmental Honors Course will follow the set curriculum with additional depth in subject matter and will encourage more student independent research. Possible

course modifications include independent projects, group projects, papers, fewer multiple-choice exams, and class size limited to 17-20 students. Please see the website for updated information on which classes will have honors sections.

## Minor

- Honors Studies (p. 86)

## Courses in Honors (HON)

### HON 1390A. History of Ideas I: Greek Civilization.

The course aims at surveying Greek Civilization from the beginnings through the Trojan War until the rise of Alexander the Great, concentrating on the flux of the fifth century for the most part, using selected Greek literature to attempt to instill awareness of Greek achievement and society and its continuing legacy for our own. Students will also read Greek philosophy and history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390B. History of Ideas I: Rhetoric Masters of Antiquity.

We shall explore the dialogues of Plato which deal with rhetoric and its relation to philosophy, as well as the works of Isocrates and Aristotle which deal with their views of that subject. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390C. Greek Civilization: The Trojan War and the Western Imagination.

The course will introduce students to Greek civilization and its impact on the western world by examining how one theme central to the Greek literary imagination—the Trojan War—influenced the development of later western literature. The course studies major texts in the Greek literary canon. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390D. Ideal Societies I: The Greek Experience.

Culture and Civilization in 5th century Athens. The Greek Experience: towards a new vision of human nature and of society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390F. Economic Thinking: Personal Values, Social Choice & Rational.

This class explores the sociological and philosophical effects operating in conjunction with economic decision-making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390H. Understanding Communication & Technology.

The course is designed to focus on skills, research and theories about the relationships between technology and communication behavior. It teaches face to face communication skills in the contemporary technological environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 1390I. Role of the Storyteller in Society: Promoter, Protector or Provocateur.

The course focuses on the role of the storyteller from ancient times to the present. Students will cultivate an appreciation for the oral tradition in the shaping of history, cultural identity, social mores and personal values. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 2301A. Writing to Change the World.

This course examines communication through writing to promote positive change in the world. This course will enable students to communicate their own arguments appropriate to the subject, occasion and audience. Students will choose a global issue on which to focus their writing, and perform related community service. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 2301B. Writing Yourself into Academia: Creating Portraiture.

By studying a person, a group of people, an institution, or a concept, students will create carefully researched written "portraits" that integrate personal narrative, interviews, and academic research. Students will communicate their own arguments and develop ideas about the effect of the message to foster understanding and to communicate persuasively. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

### HON 2302A. Elementary Number Theory.

This course engages students in the systematic study of problems in elementary number theory using definitions and logical deductions from these definitions. Emphasis will be on developing critical thinking and applications to modern problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2302B. Graph Theory and Applications.**

This course engages students in the study of important topics in graph theory through its applications and through proofs designed to strengthen mathematical techniques. The course will emphasize developing critical thinking and applications to modern problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303A. Teaching Physical Science to Children.**

Course content includes both physics concepts and research findings on physics teaching and learning. Students will develop a deep understanding of fundamental concepts in physical science and how these concepts relate to making sense of everyday experiences. This studio-styled physics course is ideal for pre-service K-8 teachers. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303B. Astronomy in Art, History, and Literature.**

In this class, students will combine astronomy and the humanities. They will create computer simulations of past celestial events. These results will be combined with evidence gathered from primary sources to investigate how astronomy affected history or appeared in the historical art or literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303C. Building a Greener Future: One Home at a Time.**

Students will use basic scientific principles to investigate resource usage in our daily lives from the production of electrical energy and construction of housing to daily consumption including HVAC systems and major utilities. Students will compare energy conservation programs across the globe and evaluate how public policy effects energy consumption. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2304A. The Meaning of Death.**

By examining the moral and existential questions raised by our own mortality, students in this course will practice critical thinking and examine the variety of human responses to and understanding of death by focusing on how ideas, values, beliefs, and other aspects of culture express and affect human experience. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2304B. Eating Animals in America: Historical and Philosophical Perspectives.**

This course examines the changing nature of, and views about, the production and consumption of animals in America from the 18th century to the present. The course will focus on the ethical and philosophical issues raised by eating animals. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2304C. Nonviolence and Sustainable Social Change.**

This course examines nonviolence as the systematic endeavor to break cycles of violence, poverty, and racism. The course will focus on investigating the ongoing force of such cycles and to formulate effective understandings for subverting and reversing such trends to offer productive contributions toward more sustainable human development. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305A. African American Popular Music: Society, Politics, and Culture.**

This course is a reading-, writing-, and listening-intensive interdisciplinary survey of African-American popular music in America and its relationship to American culture, society, politics and the other arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305B. Women and Texas Music.**

This course examines the lives and creative contributions of Texas women composers, performers, historians, and patrons, and their roles in the promotion and advancement of the arts, especially music, in Texas. This course will address topic-related issues of class, race, and identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305C. Italy and Arts of the Islamic World.**

This course focuses on the interpretation of art in its historical context, introducing students to visual analysis and art historical interpretation to understand related scholarship exploring the relationship of Italy to the Islamic world in the medieval and Renaissance periods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat

Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306A. American History Through Memoirs.**

Through studying memoirs this course focuses on American history since the end of the Reconstruction period. The memoirs, depicting interactions among individuals, communities, states, the nation, and the world, provide an understanding of how these interactions have contributed to the development of the United States and its global role. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306B. Baseball and the American Experience.**

This study of baseball focuses on American history since the end of the Reconstruction period. As a testing ground for the persistence of racial prejudice and the expansion of civil rights, and with advances in technology and management structure, the study of baseball will expose the American experience. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306C. America in the 1960s: A History of Movements and Ideas.**

This course in the history of American social and protest movements from the end of Reconstruction through Occupy focuses in particular on the movements of the 1960s - the Civil Rights Movement, the New Left, the Women's and Homosexual Liberation Movements, and the Counterculture - and their enduring legacies in contemporary society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306D. Witches, Whores, Murderers & Thieves: Capital Crime in Early America.**

This course is an in-depth investigation into the social and legal culture of Early America through the study of microhistories. In this course, we will concentrate on a series of capital crimes, ranging from murder to witchcraft. The period will be the 17th century through 1850. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306E. Early American History Through Biography.**

This course will examine early American history, from colonial times through 1877, through the lens of biography. Students will not only read biographical works on past figures but also analyze autobiographical writings that shed light on their lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2307A. Democracy in America.**

This course is a study of functions performed in the American system of government, understood through the framework of Democracy in America, Alexis de Tocqueville's seminal study of American social and political life, the nature and distinctive character of modern democratic societies, and the problems and perils these societies confront. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2307B. Contemporary Issues in American Politics.**

In considering conflicts between liberty and equality with emphasis on how these principles are defined within the American system of constitutional, students will examine literature addressing race, gender, class, and sexuality in relation to events such as national elections, and to works in modern and contemporary political thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2308A. Economic Anthropology.**

This course covers central issues in economic anthropology including the production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure in various cultures. Materials will cover hunter-gatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in non-industrial countries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309A. Origins of Civilization.**

By studying literary, mythic and philosophical works selected with special attention to narratives about the origins of humanity and civilization, students will encounter a variety of explanations of human existence. The course will broaden students' perspectives and provide insight into the background of contemporary world cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309B. Re-Humanizing Communication.**

This course examines technology's impact on human communication. Students will examine their dependency on technology in order to re-humanize communication. Students will learn to express ideas through the development of interpersonal, small group, and presentational communication skills, developing command of oral, aural, written, and visual literacy in appropriate contexts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 2309C. Great Ideas: Humanities I.**

By studying classical foundational texts in Western culture from interdisciplinary perspectives, students will understand the origin of great ideas and relate them to today's world. Texts are chosen around a particular theme by a team of instructors to focus on the earliest recorded works up to the Renaissance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309D. Magic Realism in the Works of Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, this course offers unique insights into Latin American culture, filtered through the literary and journalistic vision of Colombia's world renowned author. Additional readings and films emphasize the complex nature of the Latin American culture and literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309E. Preserving Humanity in the Face of Conflict: The War Story Genre.**

This course provides students the opportunity to consider the human impact of several global conflicts that have occurred over the past forty years by focusing on novels, short stories, essays, and a memoir written about post-World War II conflicts in Vietnam, the Balkans, Iraq, and Afghanistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309F. CS Lewis: Chronicles of a Master Communicator.**

This course uses the writing and life of C.S. to examine communication theory and principles. Lewis's work as a speaker, teacher, broadcaster and educator provides a comprehensive body of work that students can evaluate as they master and apply rhetorical and communication theories. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309G. Nature and the Quest for Meaning.**

The class focuses on American nature writing to recognize how authors communicate about nature. Students will examine the ways in which human beings experience the natural world - as an object of study, as a reflection of themselves and as a lens to look for meaning in their lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309H. Great Ideas: Humanities II.**

By studying foundational texts in Western culture from interdisciplinary perspectives, students will understand the origin of great ideas and related them to an understanding of today's world. Texts are chosen around a particular theme by a team of instructors to focus on works from the Early Modern period to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309I. Plotting the American Experience.**

An in-depth critical study of plot in major contemporary American novels and stories from the last 20 years, both as a driving force in the works and as a reflection of the American moment in which each was written. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309J. Memoirs from Lives off the Neurotypical Map.**

To understand the growing neurologically differently abled/disabled, -ordered, and mentally different/ill population and our perceptions of them and ourselves, we will analyze memoirs and aesthetic works by this true fringe group and consider what being fundamentally different means, and how labels affect people in and out of the neurotypical majority. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309K. The Death Plot: Fiction, Memoirs, Poems.**

Students will read, discuss, and write about poems, fiction, and essays to analyze the end of life. Analysis will encompass literary, sociological, and psychological perspectives on death. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309L. Communication and Consumer Culture.**

This cultural study of the turn of the twentieth century in America focuses on advertising and popular cultural messages. Students will analyze the new culture of consumerism as they develop knowledge about communication theory and strategies and practice their own communication skills. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309M. From Jay-Z to Kendrick Lamar: Politics, Power, and Identity in Hip Hop Literature.**

Students will read, discuss, and write about the poetry of Jay-Z and Kendrick Lamar along with other texts to analyze the artists' political engagement, power to effect change, command of language, and struggle with identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 2309N. Don Quixote and the Birth of the Modern Novel.**

An in-depth study of 16-17th century Spanish, medieval, Renaissance, and Baroque ideas, values, and culture in the study of Cervantes' Don Quixote, the first truly modern novel. Students will examine the novel's literary antecedents and its reception through the twenty-first century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380A. Contemporary Issues In Modern Science: Philosophy of Science.**

The course will define the scientific method and examine its conceptual tools: facts, hypotheses, theories and scientific laws. The course will also examine important concepts in science from ancient time to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380C. Global Ecology and Humanity.**

An interdisciplinary introduction to the science of global environmental change and its human dimensions. Emphasis will be placed on understanding the scientific issues underlying the major components of global change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380E. Nanotechnology: Science & Technology of the Very Small.**

The course introduces the vast array of technologies and materials in the realm of nanotechnology. The ability to control matter at these very small sizes creates behavior never seen before which will affect all facets of 21st century life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380F. Introductino of Complementary/ Alternative Medicine.**

The course introduces students to complementary/alternative medicine (CAM) and its integrate with the traditional health care system. Emphasis is placed on historical, cultural, social, research and consumer aspects of CAM. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380G. Relativity & Quantum Mechanics for Non-Science Majors.**

This course introduces principles of quantum mechanics and relativity with applications to theoretical problems and practical applications. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380H. Building a Greener Future One Home at a Time.**

This course will focus on the science and engineering principles involved in building and maintaining a house. Students will investigate how choices of materials and design influence the cost, sustainability, and energy efficiency of housing. Laboratory experiences will develop these concepts and enable students to make common household repairs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380J. Applying Statistics to Your World.**

This course engages students in active learning through statistical software, research studies, and simulations. Students will explore the elements of statistical thinking by collecting, modeling, and drawing conclusions from data while taking into account the nature of variability. Emphasis will be on engaging with real data and understanding statistical conclusions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390A. History of Ideas II: Ideal Societies.**

A chronological survey of thought and efforts at establishing ideal societies, from ancient times to the present. Course emphasizes discussion, individual reports, essay testing, all based on a systematic look at some eleven books, plus actual attempts at utopias. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390B. History of Ideas II: On Wisdom.**

This course will be an examination of the concept of wisdom. Our study will begin with a cross-cultural study of proverbs and other wisdom literature. The class will develop its own taxonomy of the content of wise sayings and see if any universal elements exist. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390D. History of Ideas II: Old and New World Philosophy.**

Exploration of Western philosophizing about ethics, knowledge, religion, reality, art, and society. Includes New World voices of pragmatists, Blacks, Hispanics, native Americans and feminists. Half of the course is devoted to developing skills of critical thinking. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390E. History of Ideas II: Origins of the American Constitution.**

An honors colloquium which will explore classical and enlightenment traditions about the origins of government, the forms of republican government, and the American efforts to confront and resolve these questions in the Revolutionary Era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390F. History of Ideas II: New England Roots of American Culture.**

An examination, through reading of significant works as well as a trip to important sites in New England, of the roots of American culture as it was influenced by the Puritans and Transcendentalists. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390G. Philosophical issues in Lewis Carroll's Writings.**

An introductory study of philosophy, using the works of Lewis Carroll and exploring topics of critical thinking, logic, reality, ethics and the nature of language. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390H. Art & Artistic: Catalysts of Social Change.**

This course explores the catalytic role of art and artists at historically significant junctures. A focus on cultural brackets of the 20th century, post-impressionism and post-Modernism lends perspective to contemporary issues in both art and society. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390I. Biography of the Book in England and America.**

This writing intensive seminar will explore literary and scholarly readings through the cultural history of printing, publishing, selling, and reading books from the printing revolution to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390J. History of American Science & Technology.**

Explores the main developments in the history of American science and technology from the colonial era to the present. Students will situate the dominant themes of this subject in the wider context of American historical change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390K. An Introduction to Arab Culture.**

This course will focus on educating students about different aspects of the Arabic culture. The relation between the Arabic language and the Arabic culture will be introduced through the discussion of cultural expressions. The course will also touch on the relation between the culture and Islam for the students to be able to differentiate between what is cultural and what is religious. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390L. An Introduction to Islam.**

This course will focus on educating the students about basic history and cultural practices related to Islam, the prophet of Islam and Islam's holy book, The Koran. It will also focus on the relationship between the Arabic language, the Arabic culture and Islam so the students will be able to distinguish between what is cultural and what is religious. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390M. Making Spaces: Conceptualizing, Experiencing, Modeling.**

Intensive exploration of the character of spaces we inhabit with a significant component of in-class discussion and analyses of images of works of preeminent architects/designers. Another significant component includes extensive hands-on building of precedent-based analytical/study models to teach lessons about visualizing and creating space. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391B. Role of Images in Mediating Reality.**

This course teaches students about subconscious influences on their perceptions of reality and their behavior, and the fundamentals of visual literacy by introducing students to visual literacy. Seeing is an avenue to higher-order thinking processes that will help students meet the professional, cultural and personal challenges of media. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391C. History of Ideas III: Philosophy in Film.**

The course will explore the interrelations between philosophy and film. Through readings in philosophy and viewings of films focusing on philosophical issues, the course will focus on these two questions: What contributions can the filmmaker make to the exploration of philosophical questions? and What contributions can philosophy make to the appreciation of the cinematic art? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391D. History of Ideas III: The French Revolution and the World.**

The course will explore the nature and importance of the French Revolution to Europe and the World from 1789 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391E. History of Ideas III: World Geographic Problems.**

Inquiry into major problems facing the global community from an interdisciplinary geographical perspective. Environmental, economic, social, and political problems will be investigated with special emphasis identifying the underlying circumstances that are responsible for the problem. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391H. Perestroika in Eur.**

This course introduces liberal arts students to the fundamental ideas in science and provides the mathematical background required to give students an in-depth treatment of topics not usually accessible to liberal arts students. Topics include: geometry, trigonometry, limits, derivatives, integrals. Prerequisites: CS 1318 or MATH 1315 and MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391I. History of Ideas III: Math Foundations of Science.**

This course introduces liberal arts students to the fundamental ideas in science and provides the mathematical background required to give students an in-depth treatment of topics not usually accessible to liberal arts students. Topics include: geometry, trigonometry, limits, derivatives and integrals. Prerequisites: CS 1318 or MATH 1315 and MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391L. History of Ideas III: Race & Slavery in American Literature.**

Students will read selected works by American writers from all historical periods who have dealt with issues of slavery and/or the relations between African and European Americans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391M. History of Ideas III: American Protest Literature of the 20th Century.**

An exploration of selected works of American Literature that offer explicit criticism of the country's traditions and governmental policies. Through discussions of the texts, as well as works on the nature of protest itself, students will consider the place of art in a democratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391P. Spirituality and Religion: A Contemporary Global Perspective.**

This course examines spirituality and religion as a universal component of human life, explores the world's major faith traditions, investigates personal and cultural biases to allow students to expand their global perspectives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391Q. History of Ideas III: African-American Protest Thought and Action.**

Course offers an examination of a variety of African-American responses to slavery, segregation and disfranchisement as well as other political, legal and economic inequalities in American life. Writings of black authors provide pathways through passive and active protest against second-class citizenship. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391R. History of Ideas III: What is Thinking (and why do we do it the way we do)?**

This course addresses the impulse or call to think through the impulse apparent in works of art, science, philosophy, mathematics, music, science fiction and Zen. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391T. History of Ideas III: The Beat Generation.**

An overview of the Beat movement of the 1940s and 50s that will explore the Beats' influence on social norms, literature and politics, as well as consider the enduring influences this small group of social outcasts has on modern America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391U. History of Ideas III: American Melodramas (in Film, Novels, TV and on Stage).**

This course will examine the melodramatic tropes across four media—novels, television soap operas, stage drama, and films—in order to explore how melodrama serves particular social functions and how it adapts as it moves from form to form. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391W. History of Ideas III: Intro to Logic Through Lewis Carroll.**

An introductory study of logic, using the works of Lewis Carroll as sources. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390A. The Nature of Society: Toward a Contemporary Aesthetic.**

To examine the role of the arts in society from a historical perspective, with an emphasis on how artistic value was determined by repective societies and cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390C. Nature of Society: Renaissance Concepts of Man.**

An honors colloquium which will explore important intellectual and literary attitudes about human nature prevalent during the Renaissance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390E. The Nature of Society: Medieval Women Writers.**

A study of the lives and texts of women writers in the Middle Ages (1000-1500) with a focus on their femine as wll as their medieval perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390F. Nature of Society: Arts and Humanities.**

The course explores the importance of arts and humanities as they contributed to the development of world culture and modern society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390G. Nature of Society: Comedy and the Human Predicament.**

This course will examine the function of the comic imagination as a form of social commentary, protest, a release from anxiety, and an attempt by man to define his idnetity and the nature of his existence in a faffling, often incomprehensible world. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390H. Nature of Society: The Problem of Evil.**

The course will consist of a study of arguments and counterarguments about whether it ia reasonable to believe in an all-knowing, all-powerful, and all-good God, despite the appearance of gratuitous evil. All major attempts to solve or dissolve the problem will be considered. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390I. The Nature of Society: Images of Death.**

Representations of Death form the Middle Ages to the Present offers students an opportunity to study verbal and visual portraits of death and examine them in terms of the individual and communal impulses which produced them. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390J. The Nature of Society: Don Quijote and the Birth of the Modern Novel.**

An in-depth study of Cervantes' Don Quijote, its literary antecedents, and its reception through the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390K. Modern Democracy & Its Enemies.**

This course will focus on the key characteristics of 21st century democracy and the internal and external threats that challenge its health and continued existence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390L. Film Analysis: A Mini-Term in Paris.**

This course will be devoted to film analysis using an analytical method to design a written analysis centered around a single genre or director. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390M. Comedy: Form & Function, Frivolity & Filth.**

This writing-intensive seminar will examine a range of comic forms--plays, fiction, film, and performance-- from literary, philosophical and social science perspectives. Prerequisites: ENG 1310 and ENG 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390N. The Avant-garde.**

This writing-intensive seminar considers the nature and practice of the avant-garde in the arts over the past century. It focuses on literature, painting, music and film from the Dada movement to the present. Prerequisites: ENG 1310 and ENG 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 33900. The Anatomy of Hatred in Life and Literature.**

This writing-intensive, team-taught seminar course explores the psychological, sociological, political and religious dimensions of hatred in life and in literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390P. Hollywood Amnesia.**

The course is designed to focus on films involving the topic of memory loss. Students will analyze the psychological, social and political considerations underlying this trend in time. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390Q. Mechanical Puzzles.**

Interdisciplinary study of mechanical (tangible-object) puzzles. Students will construct, solve, and possibly invent puzzles. Themes are the history of puzzles, puzzle inventors, the logico-mathematical underpinnings of puzzles and the psychology of puzzles. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390R. Your Brain on God: Neurotheology and the Study of Mystical Experience.**

Explores religious, philosophical and scientific perspectives regarding mystical experiences. Focus on the new field of neurotheology, where neuroscience attempts to explain religious and mystical phenomena. Readings and discussions touch on how we understand consciousness and our relationship with God and other supernatural beings/experiences. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390S. Christ, Satan, and the Sacred.**

Uses religious scholarship, anthropology and Russian literature to examine evolutions of the sacred in the West. The Gnostic Gospels offer new impressions of Christ; the origin of Satan traces connections to early Christian wars; and the work of Dostoevski, Kierkegaard and Nietzsche examine man's crisis of religious faith. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390T. Federico Garcia Lorca: Politics and Passion.**

Life and works of 20th century Spanish playwright and poet as a focal point for study of Spanish history, Andalusian folklore, gender and society, and literary styles. Themes are Spanish Civil War, gypsies and Flamenco music, surrealism and oral poetic traditions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390U. Ancient Greece through Homer's Epics.**

This course explores the themes of warfare, homecoming, humans and gods, heroic ethics and concepts of a classic through the study of ancient Greece and Homer's Epics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390V. Sachertorte for all: High Times in Freud's Vienna.**

Writing-intensive seminar focusing on Vienna at the turn of the last century. Explore some of the social, cultural and political tensions inherent in Viennese life through historical, philosophical, psychological, literary, musical and visual sources. Themes include the works of Sigmund Freud, the urban experience, nationalism & anti-Semitism, and explorations of sexuality in social science, law and arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390W. Speculate Philosophy of History.**

This course examines the "grand theories" of history. It concerns the broad issues of the overall significance of the history of mankind, with the general laws of historical development and a comprehensive explanation of the nature of the historical process. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390X. Investigating European Film: From Cultural Politics to Strategies of Desire.**

This course examines the vision of the United States that European filmmakers developed. Course topics will include the American myth, the figure of the star, the status of the foreigner and the identity politics supported by film production. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390Y. Theory of Language: Language, Mind and the making of Reality.**

The course is designed for students to gain an understanding of psycholinguistics, providing insights into human cognition and how the mind creates meaning through study of syntax, semantics, pragmatics and metaphors. The course seeks to find universal principles of cognition that make human language and communication possible. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3390Z. Finding Common Ground in Teaching & Learning.**

This course explores the reciprocal relationships in teaching and learning through a focus on curriculum, the learning process, instructional materials and assessment. Increased understanding and communication between teachers and learners with multiple cultural differences is a vital global need addressed through this course. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391A. Science Fiction and Society.**

Course will examine selected works from the growing body of science (or "speculative") fiction from two points of view: literary value (use of language, style, characterization, theme, structure, and techniques), and philosophical value (insight into the human condition, humankind's relation to science and technology possible futures, and illumination of contemporary culture, society, events, and trends). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391B. The Nature of Man: Shaping of the Modern Mind.**

This course explores the ideas and institutions that have created our modern conception of the world. The course examines the importance of industrial change, our interest in science and technology, the insights of the social sciences, and new philosophies about human kind and the human condition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391K. Nature of Man: Law and Literature.**

This course will examine the process of justice as it has evolved in the west by analyzing literary works that have dealt with major legal conflicts. Our main focus will be on how writers present values in works of fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391L. The Nature of Man: Philosophical Explorations in Film.**

An Honors colloquium which will focus on philosophical themes through readings in philosophy and viewings of films; contributions the filmmaker makes to the exploration of philosophical questions and contributions the philosopher makes to the appreciation of cinematic art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Q. The Nature of Man: Chicano Literature.**

A study of poetic language, feminism and ethnicity in the works of Chicano poets. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391R. The Nature of Man: The Prisoner.**

This course will explore the themes of individualism, isolation, social control as both ingredients of modern society and particular elements in the British television series entitled "The Prisoner," which appeared in 17 episodes during 1968. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391S. The Nature of Man: Voices in French Cinema.**

A course in French film and French film history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391T. The Nature of Man: The Japanese Psyche.**

An honors colloquium comparing the Japanese and American psyches and considering the potential significance to humanity and its planet of mutual learning and harmony between these two leading representatives of east and west. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391U. The Nature of Man: Faith and Doubt in Western Literature.**

The course will examine Western literary treatments of religious faith, showing how author's approaches to belief, faith and spirituality changed over time. It covers two large historical periods: from the Middle Ages to around 1800 and after the 1800s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391V. History of Ideas II: Contemporary Native American Women Writers.**

Fiction and poetry by contemporary Native American writers examined in lights of tribal cultures, encounters and conflicts with the dominant white, European culture, and the influence of the literary canon of the dominant culture. This course will also compare and contrast the role of women in tribal cultures to their role in the dominant culture and consider the significance of gender in works studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391W. Service Learning: A Study Abroad Course.**

This study abroad course will center on students' experiences volunteering with non-profit and/or government institutions abroad. Discussions and written assignments will provide opportunities to analyze the volunteer experiences. Field trips will provide cultural components to add to the discussion and written assignments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391X. The Nature of Man: Representing Technological Change.**

In this course, scientific paradigms, myth, fiction, law and film will be used to investigate the impact of technology on our lives. We will critically explore the relationship between science and myth, asking whether science is sufficient to represent technological change, or if, perhaps, some form of cultural representation is necessary to capture the experiential impact of technology on our lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Y. History of Ideas III: Postmodernism.**

A thoroughly interdisciplinary study of postmodernism, as manifested in recent philosophy, social theory, literature, art, music, architecture, and technology. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Z. The Nature of Man: Geographic Investigation of the Changing Ethnic Composition in Texas.**

Spatial and temporal trends of the changing ethnic composition in Texas will be investigated, by identifying and reading relevant sources, and through weekly discussions. Political, economic and environmental impacts of these trends also will be examined. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392A. Nature of the Human Experience: Gender and Fiction.**

We will study fiction by both men and women in order to consider how (or whether) gender identity manifests itself in writing. We will consider texts written in English from the eighteenth century to the present, including not only works regarded as especially "masculine" or "feminine" but also works written from the perspective of the "other" gender. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392B. Religion, Social Science, and the Quest for Meaning: An Intellectual Assault on the ineffable.**

This course examines religious beliefs and "faith" as a "way of knowing" from the perspective of modern social science: Are we consigned to a choice between naive acceptance of religious tradition ("healthy illusion") versus complete reflection of anything beyond sensory experience ("meaninglessness")? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392C. Nature of the Human Experience: Medieval Pilgrimage Literature.**

This seminar examines three major works of late 14th and early 15th century England: William Langland's *Piers Plowman*, Geoffrey Chaucer's *The Canterbury Tales*, and *The Book of Margery Kempe*. They all allude to pilgrimage in terms of metaphor, plot, structuring agent, theme or actual experience. We will be concerned with theological, historical, cultural and social contexts for the literature. Other issues of major importance to be explored are power-political, religious, sexual-and gender. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392D. The Nature of the Human Experience: War and the News Media: From Vietnam Through Desert Storm.**

This seminar-styled course critically analyzes the interaction of the news media, the government and the military from the Vietnam War through Desert Storm. Journalists and their coverage are placed in a historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392E. Nature of the Human Experience: Silver Screen Texas.**

The course explores Texas history, culture, and identity through the popular medium of theatrical films. Students are asked to learn about and analyze the relationship between the image of Texas in popular culture and the historical reality of the subject matter. Major Texas themes such as race relations, westward expansion, the cattle-cotton-oil complex, and the Depression will be subjected to critical analysis both in class discussion and in writing projects. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392F. God.**

Can an all-powerful God make a stone that is too heavy for God to lift? Can an all-knowing God know for sure what persons will do before they do it? Can belief in an all-knowing God be squared with belief in persons having free will? What are the meanings of omnipotence, omniscience, and other divine characteristics, and are they consistent? Can God be known to exist without arguments? The course will address these and related questions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392G. Nature of the Human Experience: Gender, Family, and the Horror Narrative.**

This course will draw upon novels, short stories, and films to examine how horror has historically been used to dramatize widespread social concerns, particularly concerns having to do with gender and the family-areas whose "uncanny" aspects artists may choose to address through fantasy and the supernatural rather than head-on. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392H. Nature of the Human Experience: Sense of the American South.**

This course will examine the literature, culture, and history of the American South from Thomas Jeffersonian Idealism to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392I. Nature of the Human Experience: Rock, Roll, and Rebellion.**

A Definitive Study on How the Music of the 50's-70's Reflected the Social Changes of the Baby Boomer Decade. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392J. Statistics and Shakespeare: Quantifying the Unquantifiable.**

This introductory course applies descriptive statistics, probability and inferential statistics to the study of Shakespeare. Students will also apply these statistical tools to the study of other liberal arts disciplines such as psychology, sociology, education, geography and others. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392K. The Nature of the Human Experience: Cybermarketing.**

This course is a study of the marketing process on the World Wide Web (WWW). It examines Cybermarketing in the light of social, cultural, political, legal, economic, technological and demographic factors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392L. Nature of the Human Experience: The Idea of the Grotesque.**

This course investigates the theme of the grotesque in American literature, starting with "The Book of the Grotesque," in Sherwood Anderson's Winesburg, Ohio, and including other novels and films. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392M. The New and Literary Journalism.**

The new literary journalism examines the genres of the new and literary journalism in light of literature; certain eras in reportage, i.e., war dispatches, philosophy, and the social sciences, among other disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392N. Modern Organizations' Perspectives.**

The course provides a conceptual and practical perspective on Modern Organizations. It is designed to stimulate the student's curiosity about management practices of companies pursuing a competitive advantage through modern philosophies, and to identify potential areas to apply their chosen field of study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392O. God as a Literary Character.**

This course will examine the Bible as literature, but from the perspective of writers and biographers. How God functions as a "character" in the text, and the work's profound influence on western literary writers, will be explored. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392P. The Nature of the Human Experience: Technology & Gender in Film.**

Gender and Technology in Film will include a survey and analysis of films and theoretical and literary texts, with a focus on how gender, technology, and body images are depicted in film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Q. Nature of the Human Experience: Forensic Scientific Evidence.**

A study of the use of scientific evidence and expert witnesses in criminal prosecutions, including issues of evidence gathering, testing, analysis, admissibility and presentation in court. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392R. Teaching Children to Write Poetry.**

A study of books by Kenneth Koch describing his work and lessons teaching poetry to children for the past 30 years. Students will examine his ideas about the importance of teaching poetry to children, using classical poetry as well as lessons that draw forth a creative response from children. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392S. The Nature of the Human Experience: Violence and Terror in 20th Century.**

This course will examine the biological and social aspects of violence from the perspective of anthropology. Students will examine specific incidents of violence and terror in various cultural settings and attempt to draw theoretical conclusions about the place of violence and terror in human society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392T. The Nature of the Human Experience: Integrated Marketing Communications.**

Integrated marketing communications is an interdisciplinary course designed to acquaint students with the principles and practice of integrated marketing communications. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392U. The Nature of the Human Experience: U.S. Cultural Elite and power.**

This course examines the theories and documentation of elite and pluralist theory models of government control. Classical social and philosophical works serve as the foundation for the course. We will examine the capitalist structure and the social and political implications of the globalization of the economy including concerns of a meritocratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392V. Nature of Man: Elementary Number Theory.**

This course is the systematic study of problems using definitions and logical deductions from these definitions. Elementary number theory provides an ideal medium for such a study since all basic types of mathematical proofs occur in a setting requiring no prior background. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392W. The Nature of the Human Experience: Art, Society & Urban Space in Modern Barcelona & Madrid.**

The course will review the connections between the arts, politics, and society of Modern Spain through the study of texts and movies that concentrate on the two political and cultural capitals of Madrid and Barcelona. These two cities are the premier examples of the industrialization process of Spain and both were artistic centers during the first quarter of our century. The class will explore also the nationalist tensions between Catalonia and Spain's center and the struggles for political and linguistic autonomy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392X. The Nature of the Human Experience: The Contemporary African Novel in English.**

Novels by contemporary African writers from West Africa, East Africa, and Southern Africa will be read and discussed. The class will also study the effects of colonialism on traditional African cultures. Students will consider problems of language in the African novel. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Y. The Nature of the Human Experience I: Immortality.**

Is it reasonable to believe in life after death? The course will consist in attempts to answer this question with rational arguments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Z. Ethnic Drama in the U.S..**

The course acquaints students with contemporary ethnic theatre from four American cultures, African, Latino, Native and Asian American. Students will also research playwrights, production and reviews of plays. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393A. Intuition: The Other way of Knowing.**

This is an intensive lecture, discussion, writing, and experiential course in which the human faculty of intuition is considered as a means of perceiving experience and negotiating the material environment. Intuition is considered from viewpoints of evolution/survival, psychoanalysis, cognitive psychology, philosophy, and natural science. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393B. Quest for Order & Justice in Law.**

This course explores the nature of law. It examines diverse perspectives of law expressed in legal texts, religious texts and literature, in order to identify tensions between two important ends of law. Law is a source of social order and it is a source of justice. But these ends sometimes conflict. The course begins by indentifying this conflict and analyzing arguments that resolve it in favor of order or justice. Afterwards, it explores how the conflict influences the development of legal doctrine and how it shapes the practice of law. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3393C. Indians in North American Culture.**

Thomas King's novel, *Green Grass, Running Water*, is the starting point for this course which examines how the Indian is represented in U.S. and Canadian literature, history, and popular culture. Students will read and discuss a variety of texts: literary, historical, visual (television and film). Discussion will be aided by accompanying critical/scholarly articles. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393D. Aliens, Hipsters and (In)visible Men & Women: Cold War America.**

The course focuses on the fears dreams of Cold War America as seen in popular culture and literary texts. In particular the class will examine the fear of aliens, from communists to space creatures and the psychological, cultural and ideological implications. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393E. History of Ideas III: History of Ethics I.**

This course is the first of a two course interdisciplinary sequence tracing the historical development of ethics through the study of primary works in literature, history, political thought, ethics, philosophy and law. The first course examines writings from the Ancient Greek, Roman, and Hebrew traditions, and the development of teleological, reason-based and faith-based ethics in the Christian tradition from the New Testament period to the Renaissance and Reformation. Writers studied include: Plato, Aristotle, Augustine, Aquinas, Machiavelli, and Luther. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393F. The Nature of Man: Communication & Culture.**

This course is a cultural study of the turn of the twentieth century, with a focus on a critique of advertising and popular culture messages that communicated the new culture of modernism to an America in transition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393G. The Female Self & Society: 20th Century Latin American Women Writers.**

The course presents a historical overview of women's writing in Latin America from 1900 to today, focusing on poetry, narrative fiction, essay and drama. Students will focus on women's personal and political struggles and on the similarities and differences between women's social struggles in Latin American and in the United States. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393H. The Nature of Man: Race and Ethnicity in Cross-Cultural Perspective.**

Race and Ethnicity are social phenomena that influence group relations, as well as personal identity, in many areas of the world. This course introduces students to the history of these concepts and the varied approaches that have been utilized to understand racial and ethnic phenomena. The course is rooted in anthropology but will utilize resources from other disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393I. Creating Poetry: Anglo-Saxon Innovation and Modern Tradition.**

After an introduction to Old English, students will read Old English verse in translation and learn about Old English poetics. Then students will read "new Old English poets" that were influenced by the Anglo-Saxon aesthetic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393J. Sex, Drugs & Cabaret.**

This seminar considers European life in the years around 1900. Students will examine "high" modernism's themes, including: Urban experience, nationalism, anti-semitism, and explorations of sexuality in social science, law and the arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393K. Naturalism from Hume to the Present: The Science of Matter, Mind, Morals & God.**

The thought of David Hume (1711-1776) will be set within the controversy between Continental Rationalists and British Empiricists. Hume's epistemological program of constructing a "Newtonian" science of the mind will be examined. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393L. History of Ethics - Modern to Contemporary.**

This is the 2nd of a 2 course sequence tracing the historical development of ethics through the study of primary works in literature, history, political thought, ethics, philosophy and law. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393M. Godel, Escher, Bach: An Eternal Braid.**

The course will explore common elements among the works of Godel, Escher and Bach in their art, music and logic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3393N. Violence in American Culture.**

The study of the life, times and thought of geniuses, focusing on the origin and evolution of their ideas and works and its effect on culture and civilization. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393O. Life & Work of the Genius.**

The study of the life, times and thought of geniuses, focusing on the origin and evolution of their ideas and works and its effect on culture and civilization. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393P. Personal Story Telling: Construction of Meaning.**

Explores the psychosocial functions of personal narratives. Examine how people communicate the meaning of events by telling stories about them. Students conduct narrative analysis and learn how it applies to areas of psychology, health, and culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Q. The Epicurean Ideal: Celebrating Life's Simple Pleasures.**

Considers Epicurean philosophy and its prescription for life. Use primary texts to examine the social, moral, and political dimensions of Epicurean thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393R. From Court to Street: 18th Century France.**

This course exams the cultural "revolutions" arising in 18th century France. Using literature, paintings, architecture and music, student will explore how prevalent ways of life shared from Louis XIV's Versailles to Revolutionary Paris. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393S. Entrepreneurs, Leaders, Teams: Best Practices.**

Writing Intensive seminar examining the "life stories" of selected entrepreneurs, identifies leadership qualities that may have contributed to success, and explores principles necessary for groups to become teams and for teams to become high performing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393T. The Voices of Eros in Poetry.**

This writing-intensive seminar examines erotic reality through the most private and intense verbal art - the poem. It explores philosophy, visual arts and religion in poetry. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393V. Science & Politics of the Human Diet.**

This writing-intensive seminar on nutrition provides an exciting and personally relevant venue for learning science. Learning is based on scientific literature, dietary assessment, field trips and experimentation in a food science lab. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393W. The Rhetoric & Philosophy of Technology.**

This course explores conceptions, consequences, moral implications, cultural understanding, metaphors, rhetoric and changing perspectives on technology. Prerequisites: ENG 1310, ENG 1320, and PHIL 1305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393X. Crime Writing: Representation & Memory.**

This course uses crime writing, literature and film to examine how collective memory is shaped and events give rise to competing social and political meanings. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Y. Ethics of Care - East and West.**

This course compares contemporary western feminist ethics and ancient eastern thoughts regarding care. Each stresses personal relations, and high moral value placed on care. The course is interdisciplinary and studies gender and multicultural issues through a focus on care giving. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Z. Good, Bad & Ugly - Philosophies of Film.**

This course examines the good and evil as represented in film, posing ethical questions. To what extent does depiction of evil encourage bad behavior? And does the portrayal of a philosophically shallow "good" likewise encourage bad behavior? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394A. La Onda Latina.**

Latinos are becoming the largest "minority" group and this course covers Latino writers of fiction, essays and poetry. The course focuses on the diversity of cultural, historical, political and economic impact on the U.S. Prerequisites: ENG 1310 and ENG 1320. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394B. Consciousness: Interdisciplinary Perspectives.**

This course addresses the philosophical, evolutionary, behavioral, neural and cultural nature of consciousness. Students will study the role of consciousness and the relationship to concepts of self, and to psychiatric and neurological medicine. Prerequisite: PSY 1300, preference for junior/senior Psychology majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394C. Japanese Urban Experience.**

This course introduces students to urban Japanese life and culture through history, anthropology, literature, and film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394D. The Media, Latinos, and the 2008 Elections.**

This course examines the relationships between mass media and politics, with a special focus on Latinos. Key literature is reviewed, but the goal is to engage in original research to assess the role of media and the DNC's & GOP's communication strategies in the 2008 elections, especially on Latino voters. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394E. Dark Ages: Evolution of a Historical Construction.**

Using literature, art, and film this course examines the popular image of the European Middle Ages known as the Dark Ages. Students will investigate the concept which originated in the Renaissance, and manifested into the 21st century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394F. Cannibals, Lepers & Barebreasted Maidens: Countering Stereotypes of the South Pacific.**

Study of the history, anthropology, sociology, art, literature and music of the South Pacific will capture an informed image of the region. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394G. Jazz: Cultural Diversity, Psychological & Political Zeitgests.**

This course is intended to help students appreciate cultural diversity and common unifying experiences leading to jazz, a uniquely American musical form. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394H. Against Religion: Nietzsche, Marx, Freud.**

This course is intended to examine the case against religion and to evaluate it critically. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394I. East Asian Tourism Today: Invention, Culture & Heritage.**

This course uses several disciplines to introduce students to the dynamics surrounding tourism in East Asia at the opening of the 21st century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394J. Disturbing the Peace: The Politics of Language & Power in Hip-Hop Culture.**

This course introduces students to the language, film, literature, fashion, identity, and politics of hip-hop culture. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394K. Sonic Visions: Intersections of Art & Music.**

This course explores the interaction between the visual arts and music since the late 19th century. Students will see from "behind the scenes" the process of curating and presenting a major museum exhibition of contemporary art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394L. Condoms, Smoking & Veggies: Creating Health Campaigns.**

This class will provide an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. We will examine persuasive approaches to behavioral change; audience, message and channel factors in campaign development. Our work will include communication approaches, including mass media, but with emphasis on social marketing and "new media." (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394M. Rendering Nature and Phenomenon in Art.**

This course explores, through looking at both historical and contemporary work in drawing, painting, sculpture, video, photography, and installation, how nature and phenomena are and have been rendered in art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394N. Introduction to the Humanities I.**

This team-taught, interdisciplinary course examines the dilemmas that arise when individual desires conflict with the needs of society. Students analyze exemplary, original texts from the humanities tradition from the Classical period through the early modern era using the perspectives of literature, political theory, history, and philosophy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394O. The Search for the Meaning of Life in Film.**

This course examines films concerned with challenges to the meaningfulness of human life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394P. Individuals & Society: Intro to Humanities II.**

This interdisciplinary course examines the dilemmas that arise when individual desires conflict with the needs of society. Students analyze exemplary, original texts from the humanities tradition from the Enlightenment through the present using the perspectives of literature, political theory, history, and philosophy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Q. Modern Drama: Theatre of Revolt.**

This seminar and process-oriented course examines the era of modern drama (late 19th-20th century) through text and performance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394R. Modern Art & Life: A Curatorial Seminar.**

This interdisciplinary course examines the intersection of art and life in the careers of artists who contributed to the birth of modern art. Students will learn about modern art's history and museum operations as they help to curate a major exhibition based on works in a local collection. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394S. Perspectives on the Coming Presidential Election.**

This course explores the U.S. presidential election from four perspectives of what we do when we elect a president through citizen participation, through the election as spectacle, through the media shaping perspectives, and through the candidates who hope to win. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394T. Social Class Collison: the Post WWII British Novel of Manners.**

Using six novels, this course explores the social landscape of Britain when once-rigid class distinctions dissolved during WWII. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394U. Shakespeare on Management.**

This course examines Shakespeare's approaches to leadership and management through the perspective of his dramatic works.

In combination with lectures and class discussions, this study is accomplished through individual and collaborative research and presentation projects conducted by students during the semester. (WI)

**3 Credit Hours. .03 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394V. Universal Human Rights: A Global Perspective.**

This course will examine universal human rights as an organizing framework for understanding the exceedingly complex global community in which we live today. It will examine significant social, political, philosophical, historical, legal, economic, geographic, and cultural factors that impact universal human rights. It will provide an overview of the challenges in implementing universal human rights, explore effective efforts to redress inequity, and examine opposing viewpoints. Finally, it will encourage students to engage in a critical intellectual inquiry and personal self-reflection. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394W. "Lived Reality" and the Role of International Development in Southeast Asia.**

This seminar examines the ways in which international development is implemented in Southeast Asia. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394X. Magic Realism in the Works of Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, focusing on literature, history, politics and popular culture of Latin America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Y. The Quest for the Sacred in a Secular Age: Late-Modern Novels.**

The Protestant Reformation weakened the notion of a homogeneous, central religion, as did the theories of Charles Darwin and Sigmund Freud. Yet the sense that God was no longer a collective concept but a private belief didn't seem mainstream until the twentieth century. We will study five novels that explore this shift. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Z. The Black Image in Postwar America.**

This course explores the complex ways in which blackness has been figured and represented in postwar American as well as some of the strategies that have been used to respond, intervene, and subvert these frequently monolithic representations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395A. Seeds of Change: Plants and Society.**

A course which focuses on the uses of plants and the roles plants have played in shaping the history of the world. The course stresses interdisciplinary, diversity, and multiculturalism and is designed to provide an in-depth integrated overview of the biology, chemistry and culture of plants placed in historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395B. Integral Ecology.**

This course explores multiple issues associated with the development of integral ecology, an emerging metadiscipline rooted in a perception of reality that goes beyond traditional scientific rationalism to an intuitive awareness of the oneness of life, the interdependence of its multiple manifestations, and its cycles of change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395C. Fibers to Fabric: the Interlacing of History, Science, and Technology.**

This course focuses on the role of fiber products in the development of civilization and technology. Through interdisciplinary investigations, the course seeks to provide an in-depth understanding of fiber science and place current technological, social and environmental issues surrounding textiles in historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395D. Sustainable Urbanism: Reinventing Our Communities.**

This course examines the human and environmental impacts of urbanization and critically assesses applied techniques that are being made, or proposed, to develop cities in truly sustainable ways. Students will investigate the origins and concepts of sustainable development, as well as the application of sustainable solutions to today's urban problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395E. Families and the Workplace.**

This course focuses on the study of the interaction/interface between the demands of work and family roles, especially toward policies in the US and the effect on diverse family structures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395F. Museum Representations.**

This course explores how cultural and aesthetic values, history, and the scientific record are constructed and interpreted by the process of representation in museum exhibits. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395G. 19th Century German Lieder.**

This course explores the poetry and the music of Lieder to propose text-music relationships. This course will explore the genre—its history, primary composers, and its continuing tradition into the 20th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395H. Creating and Teaching Mathematical Lessons.**

This course provides students the opportunity to create and teach mathematical lessons for children that integrate algebra and geometry – building their own mathematical understanding using inquiry based methods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395I. Ever Since Darwin: Celebrating Darwin's 200th Birthday.**

This course explores Darwin's quest in arriving at the theory of natural selection, his reasoning and evidence, as well as flaws and fallout. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3395J. The Meaning of Death.**

How does the fact that we will die affect the possibility of our living a meaningful life? In this course we will examine answers to this question provided by philosophers, psychologists, literary writers, and film-makers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395K. The World's a Stage: Dramatic Glimpses of the Human Condition.**

This seminar course examines contemporary human issues and values through the perspective of dramatic works for the stage. In combination with lectures and class discussions, this study is accomplished through research and critique projects conducted and presented by each student during the semester. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395L. Summer Study in France.**

Summer Study in France offers an intensive 35 hours a week, integrated program of oral and written French, phonetics and civilization, designed for intermediate students and supplemented with cultural activities. In addition, a week in Paris introduces students to the French architectural and artistic legacy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395M. Humanity and the Natural Environment: A Study of Interrelationships.**

An interdisciplinary introduction to the interdependence between humans and their natural environment, emphasizing linkages between human activities and their impacts on environmental resources and sustainability, including the ecosystem goods and services provided by a healthy environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395N. Media Literacy.**

This course provides frameworks for critical thinking, analyses and teaching about media. It also explores the increasingly large and diverse organizations and resources that have been developed over the last two decades pertaining to media and news literacy. Creative hands-on production projects will also be optional learning tools. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395O. Social and Political Humor through the Art of Improvisation.**

Participants will develop improvisational performance skills as they take part in theatre games and improvisational exercises. Ensemble work will emphasize spontaneity and interaction with each other. Complimentary lectures will broaden student knowledge of important movements and personalities in the history of improvisation and satire, and individual research will allow students to explore areas of particular interest. Work in smaller groups will provide students the opportunity to use these skills, along with their research, to sharpen their own wit and humor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395P. Preserving Humanity in the Face of Conflict: the War Story Genre.**

This course provides students the opportunity to consider the human impact of several global conflicts that have occurred over the past forty years by focusing on novels, short stories, essays, and a memoir written about post-World War II conflicts in Vietnam, the Balkans, Iraq, and Afghanistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Q. Vishnu, Bollywood, and Masala: South Asian Literature in Context.**

This course explores the culture of South Asia via its highly provocative literature, including religious texts such as The Bhagavad Gita, as well as contemporary texts by writers such as Salman Rushdie and Manil Suri. We will contextualize our literary discussions by examining the region's history, religious history, religions, and culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395R. Hip-Hop Culture and Positive Youth Development.**

Hip-Hop culture is examined within the context of human development over the life course. Cultural dynamics are examined alongside the social and political history of the United States. Through the lens of Hip-Hop, students will use skills in reflection, discussion and creative expression to develop strategies for personal growth and well-being. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395S. International Horticulture.**

This course introduces students to the English culture and way of life, as well as England's historic role in horticulture, past and present. Students will study from the following four horticultural fields: Ornamental Horticulture, Landscape Design, Vegetable/Fruit Crops, Vineyards and Hops. This course includes basic instruction in English history, as well as lectures and field trips. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3395T. Fast Reading for Fun: The Birth of the Mass Media in Victorian England.**

This course will explore literature published during the English Victorian period in tandem with articles, literature, illustrations, advertising, and news items published in popular Victorian periodicals. By considering periodicals and literature in context with each other, students will be able to examine a cross-section of Victorian culture, get a more intimate understanding of the development of communication and mass media in western civilization, and learn the relevance of the Victorian period to our own media moment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395U. Travel Writing.**

This seminar/lab course explores techniques of writing journalistic travel narratives for the media including (online and traditional) newspapers and blogs. Students will develop and write travel stories using diverse, interdisciplinary approaches. Students will learn information-gathering and interviewing skills, and narrative techniques pertinent to travel writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395V. Introduction to LGBT Studies: An Interdisciplinary Approach.**

This course is an introduction to LGBT Studies, combining three academic disciplines: social, political, and historical; drama and fine arts; and English and Queer Theory. These disciplines will be integrated throughout the semester to assist student in developing a perspective of local, national, and global LGBT themes and issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395W. The Writer in the Factory: Screenwriting History and Theory.**

This course explores the history of screenwriting in American filmmaking. It is not a class that teaches screenwriting technique. Rather, this course examines how the script has been regarded within the film industry over time, taking a historical perspective on screenwriting and the role of the screenwriter as each has developed throughout film history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395X. Writing Yourself into Academia: Creating Portraiture.**

Portraiture is a cross-genre research methodology in which writers study a person, a group of people, an institution, or a concept. Students will create carefully researched portraits that integrate personal narrative, interviews, and academic research. Portraiture values students' lived experiences and has roots in anthropology, sociology, journalism, and creative nonfiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Y. Juke, Twang, and Shout: Popular Music and Race in the U.S. South.**

Amongst the genres of American popular music, styles heavily associated with the U.S. South tend to predominate, and the history of each seems to be entangled with that region's contentious racial history. This course will engage the history of musical production and performance in the South while also examining the hagiography of the South, its music, and its people. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Z. Media, Ethnic Minorities, and Politics.**

The course examines the relationships between mass media and politics, with a special focus on ethnic minority groups, particularly Latinos, during the current presidential campaign. Key literature is reviewed, but the goal is to engage in original research to assess the role of ethnic-targeted communication processes in the current election. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396A. Rubbish, Waste and Litter: Cultural Refuse/als.**

This course explores the field of waste studies to integrate the material reality of and historical practices regarding excrement in written and figurative texts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396B. Playwriting: A Structured Approach to Writing for the Stage.**

This course develops the basic professional techniques and skills used in writing for the theatrical stage. Students analyze scripts and perform practical exercises in story and character development, study dramatic play and structure and develop a full-length dramatic play. Weekly readings and critiques assist writers in refining their scripts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396C. Screenwriting: A Structured Approach to Writing for the Screen.**

This course develops the basic professional techniques and skills used in writing for the screen. Students analyze contemporary scripts and perform practical exercises in story and character development, study screenplay structure and format, and develop a full-length dramatic screenplay. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396D. Mythology, Science and Creation.**

Using religious studies scholarship on myth, the course surveys creation mythologies from around the world. Native American, African, Near Eastern (including Biblical), Greco-Roman, Old European, and Asian Myths will be included. Cosmological myths will then be compared to scientific cosmology and the current model(s) of the Universe's origin. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396E. Free Speech, Free Press and the Supreme Court of the United States.**

This course focuses on U.S. Supreme Court decisions related to the First Amendment and the five rights of religion, speech, press, assembly and petition. By examining how the high court has interpreted the First Amendment, students will learn about government's sometimes wavering commitment to our nation's most cherished rights. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396F. The Art of Storytelling: From Origins to Improv.**

This seminar examines the art and culture of storytelling from ancient to contemporary times. Students read and analyze stories from oral and written traditions and develop skills in creating and applying storytelling in social, business, political and entertainment environments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396G. Graphic Novel: Form & Practice.**

The purpose of this course is to familiarize students, from analysis to creation, with the graphic novel. Because graphic novels don't easily fit into proscribed categories, this course is based off of the assumption that graphic novels are a form/media unto themselves, necessarily in dialogue with a variety of other forms/ media. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396H. Depictions of Sexuality in Children's and Adolescent Literature & Culture.**

This course will explore contemporary issues of childhood and teen human sexuality, including depictions of gender and orientation, in fiction and nonfiction for children and adolescents. We will additionally explore pedagogical, social and political issues arising from and informing societal perceptions and enactments of sexuality. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396I. Service Learning and the Second Language Acquisition Learner.**

This course aims to address the gap between learning a second language and the skills needed for teaching through first hand observational experience in the second language classroom. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396J. Transforming Creative Art: Literature in Performance.**

This seminar/workshop course examines the process of transforming literature into performance. Through close reading and analysis, students develop a critical understanding of the literary, sociological, and cultural attributes of a written work, and then develop approaches to transforming and presenting the work in performance-readings, dramatic productions, movies, improvisations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396K. Hispanic Americans: Finding Their Identities and Their Voices.**

This course is an examination of critical moments in American social history that defined the Hispanic American social, political, educational, literary, and cultural experience, and how these experiences continue to impact Hispanic American identities and voices. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396L. Early American History through Biography.**

This seminar will acquaint students with major issues and events in early American history through the study of biography and autobiography. Students will study the lives of the individual, both prominent and lesser-known, from the American past, and these lives will be examined in the context of the larger historical narrative. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396M. Transforming Creative Art: Literature in Performance, Presenting Later Shakespeare.**

This seminar/workshop series examines the transformation of literature into performance using three examples from Shakespeare's later plays. Through close reading and analysis, students develop a critical understanding of literary, sociological, and cultural attributes of written works, and then develop approaches to transforming and presenting the works into dramatic performances. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396N. American History Through Memoir: From the End of Reconstruction to the Present Day.**

This seminar offers participants engagement with recent American history through the study of memoirs from a broad range of viewpoints. Seminar participants will be responsible for providing contexts for the readings from within the secondary literature, while the featured memoirs will relate recent American history "from the margins": including voices of Native peoples, African-Americans, political and cultural dissidents, and recent immigrants. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396O. The Extraordinary in the Everyday.**

In this course we will discuss and discover how artists and writers from all over the world have approached finding or being present to the Everyday. We will discuss political and social ramifications of involvement: what it means for us to reconfigure a prescribed space. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396P. Bad Taste.**

This course investigates what it means to have bad taste and in so doing students will gain an understanding of how discussions of taste are linked to the innumerable ways in which people (through their behavior or choice of aesthetic objects) place themselves/are placed into hierarchies of knowledge and power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Q. Public Policy for Energy, the Environment, and Global Sustainability.**

This course provides an interdisciplinary introduction to U.S. policy for energy, the environment, and sustainability. Emphasis will be placed on understanding the laws, regulations, and treaties that oversee air and water pollution, solid waste, hazardous waste, energy use, natural resources, climate change, and global governance for energy, environment, and sustainability. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396R. Sustainable Design and the Built Environment.**

This course examines contemporary issues of where we live and the interdependence of our home on the environment. Sustainable principles shall be emphasized with reference to social, economic, and ecological issues of the built environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396S. The American Song: Oppression, Protest, and Praise.**

This workshop course engages students in the cultural history and sociology of the United States from the perspectives of songs, which are studied as persuasive exemplars that subtly shape public opinion and boldly inspire public action. Students integrate their study and interests by creating effective songs and lyrics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396T. How We Decide: Making Decisions from the Inside Out.**

This interdisciplinary seminar enlightens students on the decision-making process using contemporary research from neuroscience, psychology, management, healthcare, etc. From this foundation students will examine case studies at the individual, group, and societal levels, and they will evaluate a cross section of decision aids such as heuristics, ethics, and computers. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396U. From White Slavery to Sex Trafficking.**

This course seeks to historicize the global migration of sex workers and the modern-day anti-sex trafficking movement by tracing the origins of the anti-white slavery movement in the late nineteenth century to the debates about sex work and sex trafficking of the twenty-first century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396V. Witches, Whores, Murderers & Thieves: Capital Crime in Early America.**

This course is an in-depth investigation into the social and legal culture of Early America through the study of microhistories. In this course, we will concentrate on a series of capital crimes, ranging from murder to witchcraft. The period will be the 17th century through the Age of Jackson. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396W. The Dragon and the Spaceship: Fantasy, Utopia, and the Fiction of Estrangement.**

This is a course on world literature that looks specifically at otherworldly literature, including works frequently categorized as fantasy, utopia or dystopia, and science fiction. We will look at mostly modern texts written after 1800, with an emphasis on twentieth-century writers. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396X. Storytelling in Video Games.**

This course will examine how stories are crafted to fit the new interactive media of video games, how these new stories resemble traditional stories from the literary canon, and how these unorthodox plots, characters, and games are used to create a new form of literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Y. Urban Horticulture.**

This course introduces the role urban landscape and the regional environment play in the quality of life. Students will consider commercial products, services of Horticulture, and people-plant interactions related to art, science, and practice. Students will learn the importance that land use decisions have on the sustainability of the environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Z. Eating Meat in America: Historical and Philosophical Perspectives.**

This course has two aims: first, to introduce students to the changing nature of, and views about, the production and consumption of animals in America from the 18th century to the present; second, to introduce students to the philosophical issues that eating animals raises. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397A. Revolution, Malaise, Reaction, and Sleaze: America in the 1970s..**

This course revisits the reputation of a decade. Many recent commentators have claimed the Seventies as a pivotal historical moment. We will engage questions regarding why this is so, and how an understanding of the 1970s helps us to orient ourselves in the contemporary political, economic, and cultural milieu. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397B. Plotting the American Experience.**

This course is an in-depth critical study of plot in major contemporary American novels and stories (1985-present), both as a driving force in the work(s) and as a reflection of the American moment in which each was written. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397C. Geography of Africa.**

This course is a systematic approach to the multifaceted aspects of the physical and human geography of the African continent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397D. Urban Immersion: Seeing Cities through Cinema.**

This course explores themes in urban studies using full-length films and selected readings. Students will study the geo-political, economic, and socio-cultural dimensions of cities. Using cinema as a pedagogical tool immerses students in the urban experience more than traditional instructional methods, resulting in a richer understanding of the subject. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397E. Literary Barcelona.**

With Franco's 1939 victory, the Catalan language was banned from public use. This course will explore the undeservedly disadvantaged work of modern Catalan writers, and investigate texts, such as George Orwell's *Homage to Catalonia*, which stress Catalan social realities and affirm Barcelona as a place of literary imagination and vitality. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397F. America vs. the World: The History of a Love-Hate Relationship.**

This course explores the complex relationship between America and "the rest of the world" through an examination of the twin discourses of "American Exceptionalism" and "Anti-Americanism" from the time of European contact with the New World up through the post 9/11 era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397G. Memoirs from Life Off the Neurotypical Map.**

To understand the growing neurologically disabled, disordered, and mentally ill population and our perceptions of them and ourselves, we will analyze memoirs and aesthetic works by this true fringe group and consider what being fundamentally different means, and how labels affect people in and out of the neurotypical majority. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397H. International Culture Course: the cultural characteristics and diversity of people outside the US.**

This study abroad course will cultivate student knowledge of the similarities and differences among international cultures, values, traditions, beliefs, and customs. Discussions and written assignments will provide opportunities to understand the cultural achievements and human conditions of a specific target country. Field trips will provide experience of cultural components. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3397I. A Cultural History of Mexico in the 20th Century.**

This seminar will investigate the landscape of state and culture in the Republic of Mexico in the 20th Century and explore the creators, as well as the political supporters and detractors, of popular culture in terms of the fine arts, plastic arts, dance and theatre arts, poetry, music, literature, and photography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397J. Extraordinary Leadership: Ownership and Influence.**

This course is designed to elevate the performance of leaders. Students are challenged to develop their potential in seminar-style sessions covering leadership definitions, theory, frameworks, and the global application of skills. Students explore their behaviors, motivations, values, influences, and character in an effort to increase self-awareness and to think critically. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397K. The Search for Right and Wrong in Politics.**

Using classic texts and works from literature and film, and current event videos, this course provides students with a foundation for understanding the intersection of politics and ethics and for achieving an understanding of how politics works. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397L. Economic Anthropology.**

This course reviews central issues in economic anthropology, using both case studies and theoretical writings. Students will analyze production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure. Materials will cover hunter-gatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in non-industrialized countries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397M. The Death Plot: Fiction, Memoirs, Poems.**

A story or poem is finite. Life is too. When we arrive at its end, we hope to understand its meaning, or, as Peter Brooks said, "to connect ends and beginnings and make of the middle a highly charged field of force." Stories and poems about death provide this opportunity. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397N. Advanced Writing for Video Games.**

This course will teach students to write for video games based on techniques learned from observation and study. The course focuses on creativity and flexibility, two traits essential to game writing, and students will develop a marketable design document for an original video game working in design teams. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397O. Walking: An Active and Interdisciplinary Investigation.**

What has the act of walking meant historically and what does it mean today? What has been written about the experience of walking? What insights can walking with reflection bring? Students will explore these questions through readings in literature, history, and philosophy, and through art and the act of walking. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397P. Anti-Intellectualism in American Culture and Politics.**

Hostility to science, experts, and "book learning" is a common impulse that shapes contemporary American culture and politics. In this course, we will explore how anti-intellectualism promotes notions about media bias, encourages belief in implausible conspiracies, and spurs hyperpolarized politics, among other topics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Q. Women and Texas Music.**

This honors course examines the lives and contributions of Texas women composers, performers, historians, and patrons and their roles in the promotion and advancement of the state's music. Conducted in both lecture and class discussion formats, this course will address topic-related issues of class, race, and identity formation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397R. Demonology, Possession, and Exorcism.**

People have believed in demons throughout Western civilization and continue to, despite advances in science and medicine. This course explores the social significance of demonology. What are the historical, psychological, political, and economic consequences of believing in demons? To explore such questions, students will examine demonology across cultures and employ a variety of disciplinary approaches. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3397S. Human Language: its evolution, mental representation, and learning.**

Readings and discussions will concern human language's evolution, its representation in the mind/brain, and its learning by native and non-native speakers. Topics will include: evidence for language in other species including homo neanderthalensis; whether human language is innately specified; and similarities and differences between first and second language acquisition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397T. Psychology in Film.**

In this course, we will identify and discuss psychological concepts in popular films from a variety of genres. We will address issues of conformity, consciousness, motivation, addiction and psychological disorders. The approach to the material will be interdisciplinary in nature with a special focus on modern behavioral neuroscience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397U. Quests for the Holy Grail.**

The course surveys the Celtic and Christian sources of grail legends, the major medieval grail quests, and post-medieval appropriation of the grail quest. Primary sources shall be examined through the methods of literary criticism, anthropology, and religious studies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397V. Phonetics.**

This course is an introductory overview of human speech sounds. It describes speech anatomy and pays particular attention to the description of the acoustic and articulatory properties of speech as it occurs in real time. Students will study articulatory, acoustic, and auditory phonetics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397W. Alienation and Authenticity: In Search of the Modern Self.**

The modern self must struggle constantly to persevere or create authenticity against the forces of alienation. This course will investigate the origins and varieties of alienation and examine how some of the Western tradition's greatest philosophers, artists, and poets have dissected the "modern condition" and dreamed of rising above it. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397X. Nueva York: Hispanic and Latino Literature and Art in New York.**

This course offers an inter-American multidisciplinary approach to Hispanic and Latino writers and artists in New York City from the late nineteenth century to the present. Topics include exile, migration, identity, bilingualism, and civil rights through a variety of literary genres, artistic forms, cultural organizations, and academic disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Y. Deception, Risk, and Science Ethics of Research with Human Subjects.**

This course introduces the key ethical concerns related to human subject research. Students will analyze research projects in which scholars place individuals at risk in the interest of reaping some benefit to those individuals and/or society. A case-study approach will actively engage students in ethical decision-making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Z. Makerspaces: Intersections of Art and Everything.**

This course will examine multidisciplinary concepts applied within makerspaces and complete hands-on design projects using beginner-level do-it-yourself techniques, including "upcycling" recyclable materials, 2D subtractive manufacturing (i.e. CNC machines that trim acrylic, cardboard, vinyl), 3D additive manufacturing (i.e. 3D modeling, printing), textiles (i.e. embroidery, sewing), and electrical circuits (i.e. micro-controllers, sensors). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398A. Italy and Arts of the Islamic World.**

This course will challenge the traditional account of the development of Italian Renaissance art by exploring connections to Islamic culture of the surrounding Mediterranean world. Students will be introduced to visual analysis and interdisciplinary research techniques by which art and architecture can be used as documents in interpreting history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398B. Modern Tibet: Politics, Identity and Representation.**

This course examines the political, religious, economic, environmental and cultural situation of modern Tibet, by reading works by Tibetan, Chinese and Western scholars, and by analyzing propaganda and stereotypes. Students will be exposed to modern Tibetan literature, art, pop music and film, as well first-hand accounts by class guests. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398C. Theatre and War.**

In "What It Is Like To Go To War", Karl Marlantes calls for ritual to aid young soldiers returning home. In this course students will analyze how classical and modern theatre can provide such a ritual, and be used as a tool to understand society's role in war. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398D. The Politics of Language in Schools and Society.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398E. CIVIL LIBERTIES AM.**

This course explores major civil liberties themes in depth, both historical and contemporary, such as religious free exercise, free speech and press, criminal procedure, capital punishment, right to privacy, equal protection (race and gender), due process, political participation, and disabilities rights. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398F. Anthropology of Peace and Violence.**

The class explores anthropological perspectives on peace and violence. It focuses on understanding violent practices within both traditional and current day societies including everyday violence and warfare. It explores the contributions of social structure, gender, religion, race, and ethnicity to violence. It examines efforts to build peace and reconciliation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398G. Psychology and Law: Protecting the Vulnerable.**

The course examines clinical, legal and psychosocial conditions of adults who, due to mental illness, developmental impairments, brain injuries or aging, are declared "incapacitated" and have court-appointed guardians. Students will serve as probate court representatives, (i.e., Court Visitors) who inspect living conditions/services for individuals under court-ordered guardianships (service learning component)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398H. Chinese Politics and Society through Literature and Film.**

This course offers an overview of the main political and social developments in contemporary China through the cultural production of Chinese writers and filmmakers who, following the tradition of the Chinese literati of imperial times, became main characters in the modern Chinese political scene

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480A. Relativity and Quantum Mechanics for Non-Science Majors.**

Principles of quantum mechanics and relativity will be discussed and analyzed including applications to theoretical problems and practical applications. The lab portion will teach basic electronics skills and allow students to perform classic experiments of modern physics. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480B. Building A Greener Future: One Home at a Time.**

This course will focus on the science and engineering principles involved in building and maintaining a house. Students will investigate how choices of materials and design influence cost, sustainability, and energy efficiency of housing. Laboratory experiences will elucidate these concepts. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480C. Teaching Physical Science to Children.**

This studio-styled physics course is ideal for preservice K-8 teachers. Course content includes both physics concepts and research findings on physics teaching and learning. We will focus on developing deep understanding of fundamental concepts in physical science and how these concepts relate to making sense of our everyday experience. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4390A. Senior Seminar: Thesis Development.**

This course will assist Honors students by exposing them to a systematic study of contemporary research methods appropriate for research on their theses. Prospective thesis supervisors and library research facilitators will insure that participating students understand both the mechanics and expectations of preparing an Honors Thesis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4390B. Honors Thesis.**

A course designed to allow students in the Honors Program to pursue an independent project of research, study or creative achievement, culminating in a paper, laboratory problem, field research problem or creative effort of some size and scope. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4391. Honors Independent Study.**

Individual study under direct supervision of a professor for Honors credit. May involve field trips. This course may be repeated for credit but a student may not exceed six hours of credit in Honors Independent Study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

## Minor in Honors Studies

A minor in Honors Studies requires 21 semester hours, of which 12 hours are advanced including HON 4390A and HON 4390B. Of the advanced courses, a maximum of 2 may be Honors Contract courses. Honors Contract courses may not be counted for both the minor and the major. A maximum of 3 Honors courses may be counted to satisfy both General Education Core Curriculum requirements and the minor. Students are required to demonstrate cross-cultural experience by completing a study abroad program or an alternative cross-cultural component. Students must complete an Honors Thesis by enrolling in HON 4390B. Students are required to make a presentation of the thesis in the Honors Thesis Forum and obtain approval by the thesis supervising professor and the Dean of the Honors College.

## College of Applied Arts

### Dean

T. Jaime Chahin, Ph.D.  
Agriculture Building Room 300  
T: 512.245.3333 F: 512.245.3338  
<http://www.appliedarts.txstate.edu/>

### Assistant Dean

Donna Vandiver, Ph.D.

### Department Chairs/School Directors

Aerospace Studies—Lt. Col. Matthew S. Fehrman  
Agriculture—Madan M. Dey, Ph.D.  
Criminal Justice—Christine Sellers, Ph.D.  
Family and Consumer Sciences—Rodney C. Runyan, Ph.D.  
Military Science—Lt. Col. Jose A. Garcia, M.A.  
Occupational, Workforce, and Leadership Studies—Mary Jo Biggs, Ph.D.  
Social Work—Jose E. Coll, Ph.D.

The College of Applied Arts' mission is to prepare undergraduate and graduate students for careers through programs of high quality in academic, professional, and technical areas; to further faculty excellence in teaching supported by quality scholarship; and to enhance our involvement with local, state, national, and international constituencies.

The College of Applied Arts offers five undergraduate degrees:

1. Bachelor of Science in Agriculture;
2. Bachelor of Applied Arts and Sciences;
3. Bachelor of Science in Criminal Justice;
4. Bachelor of Science in Family and Consumer Sciences;
5. Bachelor of Social Work

In addition, the Departments of Aerospace Studies and Military Science offer minors which prepare qualified students for commissioning in

the United States Air Force, United States Army, United States Army Reserves, or Army National Guard.

Twenty-two undergraduate majors (several with specialized options) are offered by two departments and three schools within the College:

- Department of Agriculture: Agriculture (with teacher certification option), Agriculture Animal Science (with specializations in basic science and pre-vet and integrated ranch and natural resources management), and Agriculture Business and Management (with specializations in agribusiness management, agricultural systems management, and horticultural business).
- School of Criminal Justice: Criminal Justice, Criminal Justice Corrections, and Criminal Justice Law Enforcement.
- School of Family and Consumer Sciences: Consumer Affairs (with family and consumer sciences option and teacher certification option), Family and Child Development (with teacher certification option), Fashion Merchandising, Interior Design, and Nutrition and Foods (with dietetics option and teacher certification option).
- Department of Occupational, Workforce, and Leadership Studies: Applied Arts and Sciences. Individualized degree program for traditional and non-traditional students which offers adults the opportunity to receive college credit for previous competencies acquired in the workplace as well as selecting a new career path or supplementing skills in their current path.
- School of Social Work: Social Work education for beginning generalist in social work practices. Designed to give students a well-rounded perspective on efforts to enhance human well-being and productivity, help alleviate poverty and strengthen social justice.

Several of the College's programs have externship-type courses. These courses provide opportunities for students to further their education in an environment external to Texas State. These courses have entrance requirements including good academic standing at the time of the internship. More specific course requirements are available from the department of your major.

## Academic Advising Center

Agriculture Building Room 201

T: 512.245.1490 F: 512.245.1627  
[www.advising.appliedarts.txstate.edu](http://www.advising.appliedarts.txstate.edu) (<http://www.advising.appliedarts.txstate.edu>)

The mission of the College of Applied Arts Academic Advising Center is to provide accurate and timely advice to prospective and current students regarding their progress toward completion of undergraduate degree programs administered by the college. Services include preparation of degree audits, assistance with degree planning, scheduling of classes, counseling for probation and suspension, evaluation of transfer work, and application for graduation. Please contact the Advising Center staff to schedule an appointment for advising.

## Department of Aerospace Studies

**Air Force Reserve Officer Training Corps Detachment 840**

Derrick Hall Room 301

T: 512.245.2182

[www.afrotc.txstate.edu](http://www.afrotc.txstate.edu) (<http://www.afrotc.txstate.edu>)

The Air Force Reserve Officer Training Corps (AFROTC) Program at Texas State develops Air Force values and competencies in students for military service as commissioned officers upon graduation.

In the AFROTC four year program students may register in the same manner as for other college courses. During the freshman and sophomore years of the program, students enroll in the General Military Course (GMC). Membership in the GMC does not confer any military status or commitment upon the cadet with the exception of those cadets that are awarded the AFROTC scholarship. After completion of the GMC, students compete for entry into the Professional Officer Course (POC)

The POC is designed to provide greater flexibility to meet the needs of students desiring a commission in the Air Force. The basic requirement is that the student has two full-time academic years remaining at either the undergraduate or graduate level to meet the minimum requirement of four semesters of POC academics and Leadership Laboratory.

Selection for the POC is highly competitive. Criteria used to assess qualifications of applicants are the Air Force Officer Qualification Test (testing material and information is available through AFROTC), cumulative GPA, physical fitness test, and the Professor of Aerospace Studies' assessment. Before formal induction into the POC, applicants must complete a four-week summer Field Training encampment paid for and conducted annually by the Air Force.

Both GMC and POC members must attend a weekly two-hour laboratory each semester. The laboratory provides cadets an environment to develop, learn and practice Air Force leadership skills. Students interested in learning more about AFROTC may visit <http://www.afrotc.com> or contact the Department of Aerospace Studies and Detachment 840.

Students may compete for a variety of scholarships. Qualified students may apply during the fall or spring semester for a scholarship that covers the remaining years in the program. The scholarships provide up to full tuition, laboratory and incidental fees, and an allowance for books. All students must complete a minimum of 24 semester hours of math and physical science or four semester hours of the same foreign language. In addition, scholarship students, based on their classification, may receive up to \$500.00 per month tax-free subsistence. Students may obtain complete scholarship information online at [www.afrotc.com](http://www.afrotc.com) or at the Aerospace Studies department.

Pursuant to Texas Education Code §51.302, up to three semester hours of credit in an upper-level ROTC course may be applied to the general education core curriculum American History Component (HIST 1310 or HIST 1320) and up to three hours to the general education core curriculum Government/Political Science Component (POSI 2320 only).

## Minor

- Aerospace Studies

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Aerospace Studies (A S)

### A S 1000. Leadership Laboratory.

An integral and mandatory two-hour lab accomplished concurrently with all Aerospace Studies courses. It is a progression of practical command and staff experiences that develop leadership potential. AFROTC cadets plan, organize, direct, coordinate, and control all activities. The lab is repeatable without credit because it focuses on different leadership processes

**0 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Time Conflicts Permitted

**Grade Mode:** Credit/No Credit

### A S 1110. The Air Force Today I.

A study of the doctrine, mission, and organization of the United States Air Force; United States strategic offensive and defensive forces, their missions and functions; and employment of nuclear weapons. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### A S 1120. The Air Force Today II.

An introduction to flight, oral and written communication for the Air Force officer, Air Force installations, the Air Force profession and how the Air Force integrates with the U.S. Army, Navy, Marines, and Coast Guard. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### A S 2110. The Development of Air Power I.

A historical study of the development of air and space power beginning before the first powered flights through WWI, the inter-war years, and WWII, tracing the development of various air power concepts with a focus on factors prompting aerospace research and technological change. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### A S 2120. The Development of Air Power II.

A continuation of A S 2110 studying the historical development of air and space power from Vietnam to the present. Events and trends in the history of airpower are examined, emphasizing examples of the impact of air and space power on strategic thought. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### A S 3311. Leadership and Management I.

A study of the framework of leadership in the Air Force (AF), part 1. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**A S 3312. Leadership and Management II.**

A study of the framework of leadership in the Air Force (AF), part 2. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 4311. National Security Forces in Contemporary American Society I.**

Part 1 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 4312. National Security Forces in Contemporary American Society II.**

Part 2 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## Minor in Aerospace Studies

A minor in Aerospace Studies requires 19 hours, including:

A S 1110	The Air Force Today I	1
A S 1120	The Air Force Today II	1
A S 2110	The Development of Air Power I	1
A S 2120	The Development of Air Power II	1
A S 3311	Leadership and Management I	3
A S 3312	Leadership and Management II	3
A S 4311	National Security Forces in Contemporary American Society I	3
A S 4312	National Security Forces in Contemporary American Society II	3
3 hours of MATH		3
<b>Total Hours</b>		<b>19</b>

Cadets must enroll in A S 1000 every term until graduation.

## Department of Agriculture

Agriculture Building Room 206

T: 512.245.2130 F: 512.245.3320

www.ag.txstate.edu (<http://www.ag.txstate.edu>)

Agriculture majors have a choice of four different degree tracks:

- Agriculture,
- Agriculture Teacher Certification,
- Agriculture Animal Science,

- Agriculture Business and Management.

The Department of Agriculture offers programs reflecting the diversity of choices available and skills required in modern agriculture and its related professions. This dynamic, global industry uses new technologies to improve the production, management, manufacture, and distribution of food and agricultural products.

## Major in Agriculture

Agriculture majors are provided a broad exposure to agriculture. With this curriculum, students may expect to manage a ranch or a farm, or work in any career that requires a general agriculture education such as county extension agents, banking or government service.

## Major in Agriculture with Teacher Certification in Agriculture, Food and Natural Resources

A comprehensive educational program concerned with the broad field of agriculture. Emphasis in the major is on production techniques, managerial skills and competencies necessary to function as agricultural scientists, educators, or agricultural managers in today's complex agricultural industry. Agriculture teachers are certified to teach in grades six through twelve in the public schools of Texas.

## Major in Agriculture Animal Science

The study of all aspects of the livestock and poultry industries including commercial production and management; food processing; and animal feed/animal health including nutrition, biotechnology and veterinary medicine. Involvement of students in ongoing faculty research prepares graduates for careers in research and industry; and for further education in veterinary schools or graduate schools. Students may pursue two specializations with this major:

- Basic Science and Pre-Vet. The department supervises the Pre-Veterinary Science program, which provides two years of specialized course work for students planning to enter veterinary school.
- Integrated Ranch and Natural Resources Management

## Major in Agriculture Business and Management

This major reaches far beyond the farm to encompass the activities involved in bringing food and fiber to consumers. Students may pursue three specializations with this major:

- Agribusiness Management. In this specialization students learn about the acquisition and use of capital, the working of the marketplace, financial institutions, and the effect of government policies on agriculture. Therefore, the Agribusiness Management specialization includes courses in agricultural finance, marketing and policies dealing with resource use as well as courses in technical agriculture and general education core curriculum.
- Agricultural Systems Management. This specialization integrates and applies engineering technology, agricultural sciences, and business. It prepares graduates for careers in technical fields and engineering such as agricultural machinery and power systems, electrical energy systems including sensors and controls, agricultural structures, surveying, and environmental systems including water utilization and quality. Students are involved with ongoing research, farm power and machinery, and precision farming and global positioning



systems. Graduates are expected to assume positions of leadership and responsibility in careers such as product testing and service management, agricultural sales and services, and agricultural production systems.

- Horticultural Business. This specialization teaches management of commercial establishments and institutions that produce ornamental plants such as greenhouses and nurseries, floral shops and plant therapy businesses. The major also contains specialized courses in horticulture that utilize greenhouses, the Freeman Center and the Living Library Gardens.

## Internship

Students are encouraged to apply for internships and enroll in AG 4310 after their junior year. The department will assist students in securing internships in agriculturally related businesses or agencies. For specific information and requirements about internships, contact the Department Chair.

## Bachelor of Science in Agriculture (B.S.A.G.)

- Major in Agriculture (p. 94)
- Major in Agriculture (Teacher Certification in Agriculture, Food and Natural Resources, Grades 6-12) (p. 95)
- Major in Agriculture Animal Science (Basic Science and Pre-Vet Specialization) (p. 96)
- Major in Agriculture Animal Science (Integrated Ranch and Natural Resources Management Specialization) (p. 97)
- Major in Agriculture Business and Management (Agribusiness Management Specialization) (p. 97)
- Major in Agriculture Business and Management (Agricultural Systems Management Specialization) (p. 99)
- Major in Agriculture Business and Management (Horticultural Business Specialization) (p. 100)

## Minors

- Agriculture (p. 101)
- Animal Science (p. 101)
- Horticulture (p. 101)
- Plant and Soil Science (p. 101)
- Second Teaching Field in Agriculture Science and Technology (Grades 6-12)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Agriculture (AG)

### AG 1110. Careers in Agriculture.

This course is an introduction to careers available in the broad field of agriculture including an overview of personal and career qualifications needed for workplace success

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1131

### AG 1445. Basic Animal Science.

An introductory course designed to acquaint students with the importance of the livestock industry. A study of the types and breeds; market classes and grades of beef cattle, swine, sheep, goats, horses, and poultry; attention will be given to breeding, judging, care, and management

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1419

### AG 2310. Applied Leadership Principles.

Preparation for professional leadership and service, with emphasis on application of leadership principles. The course will focus on guiding students in developing enhanced leadership skills through group and individual leadership enhancement projects and topic research.

Prerequisite: AG 1110

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### AG 2313. Agronomic Crops.

A study of the production, harvest practices, storage, and use of cereal and feed grains, fiber crops, forages, and other related crops requiring special technology

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1307

### AG 2345. Horse Management.

A course designed as a broad but thorough coverage of most areas of horse husbandry and production, including anatomy, physiology, breeding, feeding, training, and health care. Laboratory sessions are designed to acquaint the student with modern methods of breeding, training, and care of the horse

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### AG 2367. Animal Ultrasonography.

A study of current developments and utilization of animal ultrasonography technology in agriculture. Hands-on training in animal growth and development, animal breeding, animal handling and management, animal reproduction, computer technology and data interpretation

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### AG 2373. Introduction to Agricultural Engineering.

An introductory course designed to acquaint students with a wide range of concepts, principles and applied technologies in agricultural engineering. A problem solving course

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 2303

**AG 2374. Metal Fabrication and Welding Technology for Agriculture.**

This course covers the principles and practices of applied metallurgy and welding. Emphasis is given to the management of the technologies and techniques associated with oxy-fuel cutting, shielded metal arc welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Plasma Arc Cutting (PAC). Prerequisite: AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 2379. General Horticulture.**

A survey of the general field of horticulture including general areas of employment

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1315

**AG 2383. Introduction to Agricultural Economics.**

The role of agriculture in the general economy; the study of basic economic concepts with their application to the agricultural firm; the structure and operation of the marketing system; the functional and institutional aspects of agricultural finance; international trade; and government farm programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** AGRI 2317

**AG 2390. Computer Applications in Agriculture.**

Introduction to computers and computer technology; operation and application of the computer in production agriculture and agricultural business, services and industries. Includes characteristics of computer hardware and software, accessing and using the computer in agriculture

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1309

**AG 3301. Genetics of Livestock and Plant Improvement.**

Fundamental principles of genetics and their application to higher plants and animals. The physical basis of Mendelian inheritance, expression and interaction of genes, gene frequency, linkage, sex linkage, inbreeding, line breeding, and crossbreeding as applied to selection indices for livestock and plants. Prerequisites: AG 1445; BIO 1330 and BIO 1130. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3302. Herbaceous Plant Materials.**

This course will include the identification, selection, use, and management of annuals, perennials, herbs, and ornamental grasses in the landscape. Each student will learn irrigation, fertilization, pruning, and other cultural needs of such plants. The laboratory will complement lecture

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3304. Propagation of Horticultural Plants.**

Principles and practices of propagating ornamental plants, vegetables, and fruits by sexual and asexual methods including germination of seed, layerage, graftage, division, cuttage, bulbs, corms, and other vegetative plant structures. Study of physical, physiological and environmental factors affecting propagation of ornamental plants

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3305. Woody Plant Materials for Outdoor Landscapes.**

Study of woody plant material including fruit and ornamental trees, shrubs, and ground covers and their identification, nomenclature, and use in the planting and development of home landscapes

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3306. Flowers and Plants for Interior Design.**

Study of flowers, cut flowers, foliage and blooming pot plants to enhance the interior design of homes and businesses including their identification, cultural requirements, uses, diagnoses and corrective measures of disorders. Basic principles of flower arrangement and the preparation of floral and plant decoration as used in interior design. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 3308. Organic Gardening.**

Study of principles and practices that involve the production of vegetables by organic methods. Fertility and irrigation; as well as weed, insect and disease control by practices will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3310. Agriculture Power and Machinery Technology.**

This course covers the principles of 2 stroke and 4-stroke cycle engines, ignition, and combustion types including injection systems. Components including power and power transmissions and hydraulic systems will also be addressed. Prerequisites: MATH 1315 and AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3314. Animal Health and Disease Control.**

A course designed to enable the animal science student to understand basic veterinary principles as applied to prevention of disease in domestic livestock. Common diseases of livestock are considered, with emphasis on sanitation and modern preventative methods concerned with keeping livestock healthy. Prerequisite: AG 1445

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3317. Farm Management.**

Tools and techniques which are basic to the study of farm organization and decision making, the wise allocation of factors of production, the keeping of records, and income tax management. Prerequisites: AG 2383, AG 2390; MATH 1315 or MATH 1319

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3318. Agricultural Business Management.**

Introduction to the institutions and functions in agribusiness. The institutional structure of the agribusiness sector such as the feed, farm machinery and equipment, farm chemicals, financial institutions and private and public agri-services will be delineated. The second part of the course will introduce and develop the various functions such as organizational behavior, financial management, market management and human resource management. Prerequisites: AG 2383, AG 2390; MATH 1315 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3319. International Food and Fiber Systems.**

Presents the food and fiber system from an international Component. Analysis of food production and consumption patterns under different world economic systems, causes of surpluses and shortages throughout the world; the role of trade in solving food and agricultural problems. Outlook and situation for food and fiber is discussed for both developed and developing nations, and impact of U.S. food policy on world trade flows is presented. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**AG 3321. Range Management.**

Practical problems met in managing native pastures and rangelands. Attention to determining range condition and proper stocking rates, methods of handling livestock on the range, range reseeding, brush control, and poisonous plants. The ecological and physiological response of range vegetation to grazing. Prerequisite: AG 1445

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3325. Animal Nutrition.**

Principles of animal nutrition with emphasis on digestion, absorption, metabolism, and function of nutrients; estimation of feedstuff nutritive value; and requirements of animals. Prerequisites: CHEM 1341, CHEM 1141 and BIO 1330 BIO 1130. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3329. Economic Entomology.**

A study of the most common insects of field crops, fruits, and vegetables; life history, methods of attack, damage, and means of preventing and controlling. Collection and mounts of insects will be made

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3330. Applied Wildlife Nutrition.**

Basic and fundamental principles of nutrition for ruminant and non-ruminant wildlife with emphasis in North American and African wildlife. Attention will be given to digestive physiology and anatomy, feed sources, forage resources, and nutrient requirements. Prerequisite: AG 1445 or BIO 1330 and BIO 1130

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**AG 3331. Reproduction in Farm Animals.**

An examination of the anatomy and physiology of reproductive systems of livestock of economic importance. Attention is given to reproductive failure and disease. The laboratory includes pregnancy testing, semen collection and evaluation, artificial insemination techniques, and evaluation of breeding records. Prerequisites: AG 1445 and 3301, or BIO 2450

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3345. Livestock Selection and Evaluation.**

Detailed consideration of the factors involved in the selection and evaluation of beef cattle, sheep, swine, rabbits, goats, and chickens. Emphasis will be placed on the care, grooming and exhibition of livestock projects. Prerequisite: AG 1445; junior classification

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3351. Agricultural Marketing and Sales.**

A study of the food marketing system and farm input sales; includes the functional systems approach that integrates the agricultural input industries into a discussion of food marketing; takes a micro approach to the development of marketing management skills needed in agribusiness; and provides a critical outlook on issues ranging from inputs to final food products. Prerequisites: AG 2383; MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3352. Quantitative Methods in Agricultural Economics.**

Principles involved in collection, tabulating and analyzing agricultural data. Topics include sampling procedures, questionnaire development, descriptive analysis of data, correlation, prediction and forecasting and tests of significance. Simple computer programs will be stressed for class exercises during the course. Prerequisite: MATH 1315, MATH 1319, MATH 2321, or MATH 2471

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3353. Agricultural Structures and Environment.**

Principles and practices associated with structural components, selection, materials of construction, heat and moisture control, and the environmental issues of waste management systems; a problem solving course. Prerequisites: MATH 1315, AG 2373 and AG 2390

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3375. Management of Agricultural Machinery and Equipment.**

This course addresses the optimization of the equipment phases of agricultural production and processing. Emphasis will be placed on management and decision making principles concerned with the efficient selection, operation, repair, maintenance, and replacement of machinery and equipment. Prerequisites: AG 2373, MATH 1315, CHEM 1341, CHEM 1141, and AG 2390

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3426. Soil Science I.**

The fundamental principles of soil science to acquaint the student with some physical, chemical, and biological properties of the soil. Prerequisites: CHEM 1341 and CHEM 1141; and AG 2313 or AG 2379  
**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**AG 3427. Soil Science II.**

Management of soils as pertaining to their place in the environment. Special emphasis will be given to the role of soil in conventional agricultural systems, natural resource systems, waste management systems, and reclaimed and artificial soil systems. Prerequisite: AG 3426. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**AG 3455. Land Surveying.**

Engineering practices used in plane and geodetic surveying including differential and profile leveling, topographic, land, boundary and cadastral, and construction surveys. Laboratory exercises include use of dumpy levels, transits and total stations, and GPS (Global Positioning System) total station with RTK (real time kinematic). Planimeters and stereoscopes are used in analyzing aerial maps. Prerequisites: MATH 1315 or MATH 1317 or MATH 1319; AG 2373 and AG 2390

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Time Conflicts Permitted  
**Grade Mode:** Standard Letter

**AG 4185. Current Problems in Technical Agriculture.**

A course for advanced undergraduates to study subject matter of special interest in agriculture. Problems in agronomy, economics, animal science, plant science, and farm mechanics may be selected. Prerequisite: Approval by department chair. May be repeated for up to three semester hours credit. Course may not be taken for graduate credit. (WI)

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted|Writing Intensive  
**Grade Mode:** Standard Letter

**AG 4212. Program Building.**

This course will focus on program and curriculum development in agricultural education settings. Primary course elements will include determining program and curriculum goals and objectives, implementing the program, and curriculum evaluation. Prerequisites: AG 4343, AG 4361 (to be taken in final semester)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**AG 4300. Greenhouse and Nursery Management.**

Planning greenhouses for commercial and home use; plant-nursery layouts. Study of the physical and economic factors affecting the production of plants in the greenhouse and other forcing structures, and in the field; management techniques used in the production and marketing of greenhouse and nursery plants. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**AG 4302. Fruit and Vegetable Crop Production.**

Factors influencing small-fruit and tree-fruit and vegetable crop production in the field including root stocks, varieties, soil, planting, transplanting, irrigating, fertilizing, pruning, insects, diseases, nematodes, weeds, chemicals, harvesting, storing, and marketing; greenhouse production of certain vegetables. Prerequisite: AG 2313 or AG 2379. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**AG 4304. Landscape Management.**

To acquaint students with the practices and techniques used in professional landscape construction and management, and with the scientific and technical basis for such practices

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**AG 4305. Landscape Design.**

Landscaping combines elements of art and science to create functional, aesthetically pleasing outdoor space. This class helps students develop knowledge of design elements and principles. Students learn site and client analysis techniques for critiquing landscapes. Students learn to communicate ideas through the planning and drawing of landscape plans

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**AG 4307. Professional Development in Agriculture.**

This course requires students to select a topic of current interest appropriate to the major. Critical analysis of the situation including both positive and negative aspects will be encouraged. Findings will be presented in both oral and written form. (Capstone Course). Senior Classification required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**AG 4310. Agricultural Internship.**

This course integrates professional and academic experience through internship with an external employer. The internship is designed to provide actual work experience, observation and analysis in the student's chosen career field. Prerequisites: Junior or Senior standing and a GPA of 2.75 or higher

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**AG 4311. Instructional Methods for Career and Technology Educators.**

An analysis of the instructional techniques, strategies and methods appropriate to the effective teaching of career and technology subjects. Teaching special populations and teaching in multicultural environments will be addressed. To be taken the Fall semester before student teaching

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter



**AG 4325. Feeds and Feeding.**

Study of feedstuffs used in livestock enterprises. Application of basic nutrients to the needs of different species of livestock. Formulating rations, methods of feeding, feed control laws, and feeding investigation.

Prerequisites: AG 1445; CHEM 1341, CHEM 1141; BIO 1330, BIO 1130

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4326. Advanced Animal Science-Ruminants.**

The application of scientific and technological advances to production and management in ruminant animal production and management.

Prerequisite: AG 1445. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 4328. Advanced Animal Science-Poultry and Swine.**

Application of basic principles in the production and management of nonruminant animals. Scientific and technological advances with emphasis on overall management, health care, nutrition, genetics, physiology, and marketing of nonruminant animals. Prerequisite:

AG 1445. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4330. Food Technology: Processing Meats.**

Evaluation and grading of carcasses; wholesale and retail cuts of beef, pork, lamb, and poultry. Emphasis on quality controls, testing of finished products that have been frozen, cured, fried, pickled, and canned. Prerequisites: AG 1445, BIO 1330, 1130 and CHEM 1341, 1141; or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4343. Organization and Management for Laboratory Programs.**

Instructional programs involving laboratory equipment and facilities will be examined. Curriculum, teaching methods, equipment and facility management practices including various aspects of safety, tool management, inventory and security are emphasized along with facilities layout planning. Must be taken in last semester of program. Prerequisites or co-requisites: AG 4212 and AG 4681

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4361. Agriculture Electric and Mechanical Systems.**

Electrical fundamentals applied to agricultural production and processing. Circuits, power, energy, wiring design, and motor fundamentals; selection, installation and operational characteristics. Sensors and control devices including switches, relays, timers, and circuit breakers will be studied. Prerequisite: AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4371B. Agriculture Irrigation Technology.**

Principles associated with water management practices in maintaining soil productivity and the influence of water management on environmental quality. Emphasis will be placed on the selection and layout of irrigation and drainage systems, waste management systems, and the impact on the environment. Prerequisite: AG 2373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**AG 4371T. International Horticulture.**

The purpose of this program is to introduce students to the English culture and way of life, as well as England's historic role in Horticulture, past and present. Students will intensely study from the following four horticultural fields: Ornamental Horticulture, Landscape Design, Vegetables/Fruit Crops, and Vineyards and Hops. The program includes basic instruction in English history, as well as lectures and field trips

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**AG 4380. Agricultural Finance.**

An introduction to finance and financial problems faced by agribusiness managers. The subject matter includes financial analysis, planning, and control; capital budgeting; capital structure, liquidity, and risk management; and financial markets. Prerequisites: AG 2383; MATH 1315 or MATH 1319; ACC 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 4381. Agricultural Policy.**

Identification and analysis of governmental programs and policies affecting the production and marketing of agricultural products. An economic evaluation of alternative policies and their application for farmers, consumers and agribusinesses will be considered. Prerequisites: AG 2383; MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4383. Agricultural Resource Economics.**

Economic concepts and institutional factors relating to the use of agricultural resources such as land, air, water, energy, space, etc. Emphasis is on the conservation of resources and the environmental interactions resulting from the use of natural resources for agricultural production. Prerequisite: AG 2383, MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4681. Student Teaching in Agricultural Science and Technology.**

Planning for teaching agricultural science in selected schools in Texas. Course to be taken in final semester. Senior classification required to enroll

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit



# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture

**Minimum required: 120 semester hours**

## General Requirements

1. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
AG 2390 <sup>1</sup>	3
BIO 1330 & BIO 1130	4
MATH 1315 or 1319	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
POSI 2310	3
	31

Sophomore	Hours
AG 2313 or 2379	3
AG 2373 <sup>1</sup>	3
AG 2374	3
AG 2383	3
ENG 3303	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
CHEM 1341	3
CHEM 1141	1
PHIL 1305 or 1320	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	
SOCI 1310	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	

TH 2313	Hours
	31
<b>Junior</b>	<b>Hours</b>
AG 3310	3
AG 3426	4
AG 3427	4
AG Electives I	12
HIST 1320	3
POSI 2320	3
AG 2310	3
	32
<b>Senior</b>	<b>Hours</b>
AG 3317 or 3318	3
AG 3319	3
AG 3353 or 4361	3
AG 4310	3
AG 4325	3
AG 4326	3
AG Electives II	5
AG 4307	3
	26
Total Hours: 120	

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

## AG Electives I

Select 12 hours of the following:	Hours
AG 2345 Horse Management	
AG 2367 Animal Ultrasonography	
AG 3301 Genetics of Livestock and Plant Improvement	
AG 3302 Herbaceous Plant Materials	
AG 3304 Propagation of Horticultural Plants	
AG 3305 Woody Plant Materials for Outdoor Landscapes	
AG 3306 Flowers and Plants for Interior Design	
AG 3308 Organic Gardening	
AG 3314 Animal Health and Disease Control	
AG 3325 Animal Nutrition	
AG 3330 Applied Wildlife Nutrition	
AG 3331 Reproduction in Farm Animals	
AG 3345 Livestock Selection and Evaluation	
AG 4328 Advanced Animal Science-Poultry and Swine	
AG 4330 Food Technology: Processing Meats	

## AG Electives II

Select 5 hours of the following:	Hours
AG 3321 Range Management	
AG 3329 Economic Entomology	
AG 3351 Agricultural Marketing and Sales	
AG 3352 Quantitative Methods in Agricultural Economics	
AG 3455 Land Surveying	
AG 4185 Current Problems in Technical Agriculture (3 hour maximum)	

AG 4300	Greenhouse and Nursery Management
AG 4302	Fruit and Vegetable Crop Production
AG 4304	Landscape Management
AG 4305	Landscape Design
AG 4381	Agricultural Policy
AG 4383	Agricultural Resource Economics

CHEM 1341	3
CHEM 1141	1
PHIL 1305 or 1320	3
HIST 1320	3
POSI 2320	3
<hr/>	
	28

## Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture (Teacher Certification in Agriculture, Food and Natural Resources, Grades 6-12)

### Minimum required: 120 semester hours General Requirements

1. Students cannot enroll in upper-level (3000-4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319 (Freshman Year), and CHEM 1341 and CHEM 1141.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
AG 2390 <sup>1</sup>	3
BIO 1330 & BIO 1130	4
MATH 1315 or 1319	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
POSI 2310	3
<hr/>	
	31

Sophomore	Hours
AG 2313 or 2379	3
AG 2373 <sup>1</sup>	3
AG 2383	3
AG 2374	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	

Junior	Hours
AG 3426	4
AG 3319	3
AG 3317 or 3318	3
AG 4325	3
AG 2310	3
Select one of the following:	3
AG 3310	
AG 3353	
AG 4361	
CI 4332	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	
SOCI 1310	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CI 3325	3
<hr/>	
	31

Senior	Hours
AG 3345	3
AG 4185	1
AG 4343	3
AG 4212	2
AG 4307	3
AG 4311	3
AG 4681	6
RDG 3323	3
CI 4370	3
AG Advanced Elective	3
<hr/>	
	30

Total Hours: 120

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture Animal Science (Basic Science and Pre-Vet Specialization)

**Minimum required: 120 semester hours**

## General Requirements

1. A Biochemistry minor is required.
2. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
3. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
PHYS 1315 & PHYS 1115	4
BIO 1330 & BIO 1130	4
CHEM 1341 & CHEM 1141	4
CHEM 1342 & CHEM 1142	4
US 1100	1
ENG 1310	3
POSI 2310	3
POSI 2320	3
	31
Sophomore	Hours
PHYS 1325 & PHYS 1125	4
ENG 1320	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
COMM 1310	3
MATH 1315	3
PHIL 1305 or 1320	3
CHEM 2341 & CHEM 2141	4
CHEM 2342 & CHEM 2142	4
HIST 1310	3

HIST 1320	3
	33
Junior	Hours
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	
SOCI 1310	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
AG 3301	3
AG 3314	3
BIO 2400	4
AG 3325	3
CHEM 3375 or 4375	3
CHEM 3276	2
AG 3319	3
AG 2310	3
	30
Senior	Hours
ENG 3303	3
AG 4330	3
AG 4325	3
AG 3331	3
CHEM 4360	3
CHEM 4385	3
AG 4307	3
Select one of the following:	2-3
AG 4185 (Take 2 times)	
AG 4326	
AG 4328	
COMM 2330 or 2338	3
	26

Total Hours: 120

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture Animal Science (Integrated Ranch and Natural Resources Management Specialization)

**Minimum required: 120 semester hours**

## General Requirements

1. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
AG 2390 <sup>1</sup>	3
BIO 1330	3
BIO 1130	1
CHEM 1341	3
CHEM 1141	1
US 1100	1
ENG 1310	3
ENG 1320	3
POSI 2310	3
POSI 2320	3
MATH 1315 or 1319	3

32

Sophomore	Hours
AG 2383	3
AG 2373 <sup>1</sup>	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
COMM 1310	3
PHIL 1305 or 1320	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
ECO 2301	
ECO 2314	
PSY 1300	
SOCI 1310	

Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
HIST 1310	3
HIST 1320	3

27

Junior	Hours
AG 3301	3
AG 3314	3
AG 3321	3
AG 3325	3
AG 3351	3
ACC 2361	3
AG 3353	3
AG 3426	4
ENG 3303	3
GEO 2426	4

32

Senior	Hours
AG 3317	3
AG 3319	3
AG 3331	3
AG 3352	3
AG 4325	3
AG 4326	3
AG 4330	3
Advanced Elective	2
AG 4307	3
AG 2310	3

29

Total Hours: 120

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture Business and Management (Agribusiness Management Specialization)

**Minimum required: 120 semester hours**

## General Requirements

1. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence

of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
AG 2390 <sup>1</sup>	3
BIO 1330 & BIO 1130	4
MATH 1315 or 1319	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
POSI 2310	3
	31

Sophomore	Hours
AG 2313 or 2379	3
AG 2373 <sup>1</sup>	3
AG 2383	3
ACC 2361	3
ENG 3303	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
CHEM 1341	3
CHEM 1141	1
PHIL 1305 or 1320	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	
SOCI 1310	
Select one of the following:	3
MATH 1329	
MATH 2321	
MATH 2417	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
	34

Junior	Hours
ACC 2362	3
AG 3351	3
AG 3352	3
AG 3426	4

ECO 2315	3
ECO 3314	3
HIST 1320	3
POSI 2320	3
AG Electives	3
AG 2310	3
	31

Senior	Hours
AG 3317 or 3318	3
AG 3319	3
AG 3353 or 3375	3
AG 4380	3
AG 4381	3
AG 4383	3
AG 4307	3
AG Electives	3
	24

Total Hours: 120

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

## AG Electives

Select 6 hours of the following:	6
AG 3301	Genetics of Livestock and Plant Improvement
AG 3302	Herbaceous Plant Materials
AG 3304	Propagation of Horticultural Plants
AG 3305	Woody Plant Materials for Outdoor Landscapes
AG 3306	Flowers and Plants for Interior Design
AG 3308	Organic Gardening
AG 3310	Agriculture Power and Machinery Technology
AG 3314	Animal Health and Disease Control
AG 3321	Range Management
AG 3325	Animal Nutrition
AG 3329	Economic Entomology
AG 3331	Reproduction in Farm Animals
AG 3345	Livestock Selection and Evaluation
AG 3427	Soil Science II
AG 3455	Land Surveying
AG 4185	Current Problems in Technical Agriculture (3 hour maximum)
AG 4300	Greenhouse and Nursery Management
AG 4302	Fruit and Vegetable Crop Production
AG 4304	Landscape Management
AG 4305	Landscape Design
AG 4310	Agricultural Internship
AG 4325	Feeds and Feeding
AG 4326	Advanced Animal Science-Ruminants
AG 4328	Advanced Animal Science-Poultry and Swine
AG 4330	Food Technology: Processing Meats
AG 4361	Agriculture Electric and Mechanical Systems
BLAW 3363	International Business Law



# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture Business and Management (Agricultural Systems Management Specialization)

**Minimum required: 120 semester hours**

## General Requirements

1. Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 1445	4
AG 2390 <sup>1</sup>	3
BIO 1330 & BIO 1130	4
MATH 1315 or 1319	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
POSI 2310	3
	31
Sophomore	Hours
AG 2313 or 2379	3
AG 2373 <sup>1</sup>	3
AG 2383	3
PHYS 1315 & PHYS 1115	4
ENG 3303	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
CHEM 1341	3
CHEM 1141	1
PHIL 1305 or 1320	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	

SOCI 1310	
Select one of the following:	3
MATH 1329	
MATH 2321	
MATH 2417	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
	35
Junior	Hours
ACC 2361	3
AG 2374	3
AG 3310	3
AG 3351	3
AG 3352	3
AG 3426	4
HIST 1320	3
POSI 2320	3
AG 2310	3
	28
Senior	Hours
AG 3317 or 3318	3
AG 3319	3
AG 3353 or 3375	3
AG 3455	4
AG 4361	3
AG 4380	3
AG Electives	4
AG 4307	3
	26
Total Hours: 120	

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

## AG Electives

Select 4 hours of the following:	4
AG 3301	Genetics of Livestock and Plant Improvement
AG 3302	Herbaceous Plant Materials
AG 3304	Propagation of Horticultural Plants
AG 3305	Woody Plant Materials for Outdoor Landscapes
AG 3306	Flowers and Plants for Interior Design
AG 3308	Organic Gardening
AG 3314	Animal Health and Disease Control
AG 3321	Range Management
AG 3325	Animal Nutrition
AG 3329	Economic Entomology
AG 3331	Reproduction in Farm Animals
AG 3345	Livestock Selection and Evaluation
AG 3427	Soil Science II

AG 4185	Current Problems in Technical Agriculture (3 hour maximum)
AG 4304	Landscape Management
AG 4305	Landscape Design
AG 4310	Agricultural Internship
AG 4325	Feeds and Feeding
AG 4326	Advanced Animal Science-Ruminants
AG 4328	Advanced Animal Science-Poultry and Swine
AG 4330	Food Technology: Processing Meats
AG 4371B	Agriculture Irrigation Technology
AG 4381	Agricultural Policy
AG 4383	Agricultural Resource Economics

ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
CHEM 1341	3
CHEM 1141	1
PHIL 1305 or 1320	3
Select one of the following:	3
ANTH 1312	
GEO 1310	
PSY 1300	
SOCI 1310	
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	

# Bachelor of Science in Agriculture (B.S.A.G.) Major in Agriculture Business and Management (Horticultural Business Specialization)

**Minimum required: 120 semester hours**

## General Requirements

- Students cannot enroll in upper-level (3000 or 4000) agriculture courses until they have successfully completed MATH 1315 or MATH 1319, and CHEM 1341 and CHEM 1141.
- If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
AG 1110 <sup>1</sup>	1
AG 2390 <sup>1</sup>	3
BIO 1330 & BIO 1130	4
MATH 1315 or 1319	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
POSI 2310	3

27

Sophomore	Hours
AG 2313 or 2379	3
AG 2373 <sup>1</sup>	3
AG 2383	3
ACC 2361	3
AG 3304	3
ENG 3303	3
Select one of the following:	3
ENG 2310	

Junior	Hours
AG 3305	3
AG 3306	3
AG 3329	3
AG 3351	3
AG 3352	3
AG 3426	4
AG Electives	3
HIST 1320	3
POSI 2320	3
AG 2310	3

34

Senior	Hours
AG 3302	3
AG 3317 or 3318	3
AG 3308	3
AG 3427	4
AG 4380	3
AG 4307	3
AG 3319	3
AG Electives	6

28

Total Hours: 120

<sup>1</sup> Must be successfully completed in the first 45 college credit hours at Texas State.

## AG Electives

Select 9 hours of the following:	9
AG 3301	Genetics of Livestock and Plant Improvement
AG 4300	Greenhouse and Nursery Management
AG 3310	Agriculture Power and Machinery Technology
AG 3314	Animal Health and Disease Control
AG 3321	Range Management

AG 3353	Agricultural Structures and Environment
AG 3455	Land Surveying
AG 4185	Current Problems in Technical Agriculture (3 hour maximum)
AG 4302	Fruit and Vegetable Crop Production
AG 4304	Landscape Management
AG 4305	Landscape Design
AG 4310	Agricultural Internship
AG 4361	Agriculture Electric and Mechanical Systems
AG 4381	Agricultural Policy
AG 4383	Agricultural Resource Economics

## Minor in Agriculture

A minor in Agriculture requires 19 hours, which includes:

AG 1445	Basic Animal Science	4
AG 2313	Agronomic Crops	3
AG 2373	Introduction to Agricultural Engineering	3
Advanced AG classes		9
Total Hours		19

A minor in agriculture is ideal for someone majoring in the life sciences, family and consumer sciences, or in any discipline where knowledge of the food and fiber industry would be beneficial.

Agriculture majors may not select a minor in Agriculture due to course duplication.

## Minor in Animal Science

A minor in Animal Science requires 19 hours, which includes:

AG 1445	Basic Animal Science	4
AG 3325	Animal Nutrition	3
AG 3331	Reproduction in Farm Animals	3
Select 9 hours of the following:		9
AG 3301	Genetics of Livestock and Plant Improvement	
AG 3314	Animal Health and Disease Control	
AG 3321	Range Management	
AG 3352	Quantitative Methods in Agricultural Economics	
AG 4326	Advanced Animal Science-Ruminants	
AG 4330	Food Technology: Processing Meats	
Total Hours		19

## Minor in Horticulture

A minor in Horticulture requires 18 hours, which includes:

AG 2379	General Horticulture	3
AG 3302	Herbaceous Plant Materials	3
AG 3305	Woody Plant Materials for Outdoor Landscapes	3
Select 9 hours of the following:		9
AG 3304	Propagation of Horticultural Plants	
AG 3306	Flowers and Plants for Interior Design	
AG 3308	Organic Gardening	
AG 3426	Soil Science I	

AG 3427	Soil Science II
AG 3455	Land Surveying
AG 4300	Greenhouse and Nursery Management
AG 4302	Fruit and Vegetable Crop Production
AG 4304	Landscape Management
AG 4305	Landscape Design
AG 4371B	Agriculture Irrigation Technology
Total Hours	18

## Minor in Plant and Soil Science

A minor in Plant and Soil Science requires 20 hours, which includes:

AG 2313	Agronomic Crops	3
AG 3426	Soil Science I	4
AG 4302	Fruit and Vegetable Crop Production	3
Select 10 hours of the following:		10
AG 3301	Genetics of Livestock and Plant Improvement	
AG 3304	Propagation of Horticultural Plants	
AG 3321	Range Management	
AG 3329	Economic Entomology	
AG 3427	Soil Science II	
AG 3455	Land Surveying	
AG 4371B	Agriculture Irrigation Technology	
Total Hours		20

## Second Teaching Field in Agriculture Science and Technology (Grades 6-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Agriculture Science and Technology, the requirements are:

AG 2373	Introduction to Agricultural Engineering	3
AG 2374	Metal Fabrication and Welding Technology for Agriculture	3
AG 2383	Introduction to Agricultural Economics	3
AG 3345	Livestock Selection and Evaluation	3
AG 4212	Program Building	2
AG 4325	Feeds and Feeding	3
AG 4343	Organization and Management for Laboratory Programs	3
Select one of the following:		3
AG 2313	Agronomic Crops	
AG 2379	General Horticulture	
Select one of the following:		3
AG 3310	Agriculture Power and Machinery Technology	
AG 3353	Agricultural Structures and Environment	
AG 4361	Agriculture Electric and Mechanical Systems	
Select one of the following:		3-4
AG 3305	Woody Plant Materials for Outdoor Landscapes	
AG 3306	Flowers and Plants for Interior Design	

AG 3426	Soil Science I	
Total Hours		29-30

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## School of Criminal Justice

Hines Building Room 108  
T: 512.245.2174 F: 512.245.8063  
www.cj.txstate.edu (<http://www.cj.txstate.edu>)

The degree programs in the School of Criminal Justice prepare students to pursue advanced academic degrees and to serve the community in the operation and management of criminal justice agencies which include:

- federal, state, county, and municipal law enforcement;
- probation;
- courts;
- institutional corrections;
- parole;
- related agencies.

The programs are founded on an interdisciplinary and academic approach to the role of criminal justice in the maintenance of social order in a democratic society.

Students pursuing a degree in criminal justice should be willing to meet the standards required of such a career. The majority of criminal justice agencies require sound academic preparation, psychological stability, physical agility, and a record free of felonies or excessive traffic offenses. All three programs include optional internships, and students selecting an internship option must meet criteria described below. The Criminal Justice programs include the development of advanced research and writing skills and includes interdisciplinary course work.

15 credit hours in criminal justice core curriculum (or their equivalents) may be transferred from a Texas public two-year college as agreed by Texas public institutions for the criminal justice field of study. If transferring additional criminal justice courses please contact the College of Applied Arts Academic Advising Center for assistance.

## Criminal Justice Core

### Required Courses

CJ 1310	Introduction to Criminal Justice	3
CJ 2310	Police Systems and Practices	3
CJ 2350	The Courts and Criminal Procedure	3
CJ 2355	Correctional Systems and Practices	3
CJ 2360	Fundamentals of Criminal Law	3
Total Hours		15

## Internship

A student must meet the following requirements before being allowed to enroll in an internship course: Texas State GPA of 2.25, CJ CPA of 2.50, completion of 90 college course work hours (including 21 in CJ), and the following courses. Permission of Internship Coordinator is also required.

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3

CJ 3346	Research in Criminal Justice	3
HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
COMM 1310	Fundamentals of Human Communication	3
MATH 1315	College Algebra	3
MATH 1316	Survey of Contemporary Mathematics	3
or MATH 1319	Mathematics for Business and Economics I	
Select one of the following:		3
CJ 3347	Statistics For Criminal Justice	
MATH 2328	Elementary Statistics	
SOCI 3307	Statistics for the Behavioral Sciences	
PSY 2301	Introduction to Statistics	
& PSY 2101	and Introduction to Statistics Laboratory	
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
6 hours of Life and Physical Sciences		6

## Bachelor of Science in Criminal Justice (B.S.C.J.)

- Major in Criminal Justice (Internship Option) (p. 105)
- Major in Criminal Justice (Non-Internship Option)
- Major in Criminal Justice Corrections (Internship Option) (p. 106)
- Major in Criminal Justice Corrections (Non-Internship Option) (p. 107)
- Major in Criminal Justice Law Enforcement (Internship Option) (p. 108)
- Major in Criminal Justice Law Enforcement (Non-Internship Option) (p. 109)

## Minors

- Criminal Justice

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Criminal Justice (CJ)

### CJ 1310. Introduction to Criminal Justice.

History and philosophy of criminal justice: ethical considerations, crime defined, overview of criminal justice system, law enforcement, court system, prosecution and defense, trial process, and corrections  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1301

### CJ 2310. Police Systems and Practices.

Police profession: organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 2328

**CJ 2350. The Courts and Criminal Procedure.**

Judiciary in the criminal justice system: structure of American court system, prosecution, right to counsel, pre-trial release, grand juries, adjudication process, types and rules of evidence, and sentencing.

Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1306

**CJ 2355. Correctional Systems and Practices.**

Corrections in the criminal justice system: organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, and current and future issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 2313

**CJ 2360. Fundamentals of Criminal Law.**

A study of the nature of criminal law: philosophy and historical developments, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas Statutes as illustrations, and justifications of and defenses to criminal responsibility

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1310

**CJ 3300. Juvenile Justice.**

A study of the juvenile justice process to include both the specialized juvenile law and the role of the courts, police and corrections in juvenile justice. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3322. Race, Ethnicity and Criminal Justice.**

This course examines the relationship between race/ethnicity and the criminal justice system. Theories of race/ethnicity and crime, the criminal justice system, and social systems including media, politics and economics are examined to form a comprehensive understanding of the social construction of race as it pertains to a racially disproportionate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3323. Mid-Level Management in Criminal Justice Agencies.**

Introduction and overview of the organizational theories of classical behavioral, and systems management concepts. Included in the course content are analyses of the functions of management in modern CJ organizations, internal and external environmental factors, individual & group dynamics, motivation, and leadership styles. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3325. Penology.**

Role of the institution in the process of corrections including the philosophy of imprisonment, the inmate subculture and special problems and programs in institutions. Prerequisite: CJ 1310 and CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3329. Forensic Evidence.**

Investigator's role in collecting, preparing and presenting evidence in criminal trials. Special attention will be given to electronic evidence in addition to traditional physical evidence. Prerequisites: CJ 2350 and CJ 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3346. Research in Criminal Justice.**

Analysis of criminal justice research, survey methods, and the utilization of research in criminal justice. Prerequisite: CJ 1310, CS 1308 or equivalent and Statistics (CJ 3347, MATH 2328, PSY 3301, SOCI 3307 or equivalent). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 3347. Statistics For Criminal Justice.**

The theory and application of statistical inferential techniques, and correlation and regression for behavioral science data and its applications in Criminal Justice. Emphasis is on the collection, analysis, and interpretation of statistical data in criminal justice settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4301. Internship I.**

Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**CJ 4302. Internship II.**

Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**CJ 4309E. Criminal Justice in Southeast Asia.**

This course provides an overview of the systems of policing, criminal courts and criminal procedure, prisons, and non-institutional corrections in the nations of Myanmar (Burma), Laos, Vietnam, Thailand, Singapore, Cambodia, the Philippines, Malaysia, and Indonesia, and critically examines justice-related political, social, cultural, and human rights issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 4309F. The Psychology of Antisocial Behavior.**

This course examines how psychological perspectives are used to explain antisocial behavior, by drawing on the intersection between theory and research in the following areas in psychology: developmental, child psychopathology, biological, personality, cognitive, and social

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**CJ 4309G. Media and Crime.**

This course focuses on media's role in social control of society by exploring public understanding of the problems associated with crime and their solutions through a critical examination of the relationships between the media, the criminal justice system, and crime in the larger context of society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 4310. Special Problems in the Criminal Justice System.**

A study of contemporary problems in administration, management, organization and operation of criminal justice agencies. Prerequisites: CJ 2310, CJ 2350, CJ 2355, CJ 2360 and senior standing. (Capstone Course). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4314. Terrorism in the United States.**

Terrorist groups operating in the U.S. are examined with special emphasis on the far-right (militia, Christian identity, neo-nazi, other racist groups). Analyzed are their belief systems and structures, organizational structure, tactics and targets, and weapons. Future trends are discussed, including the threat posed by nuclear, biological, and chemical terrorism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4316. Treatment in Community and Institutional Corrections.**

A study of community based programs for adult and juvenile offenders, treatment modalities in various correctional settings, administration, legal issues, and future trends associated with community-based and institutional based treatment. Prerequisites: CJ 2355 and CJ 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4321. Occupational Crime.**

A study of the problems of organized and upper social status criminal activities with emphasis on statutes and their application to fraud, embezzlement, deceptive trade practices and illegal trade practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4323. Special Operation Units in Law Enforcement and Corrections.**

This course introduces students to the basic principles of Special Operations Units (SOUs) within criminal justice agencies. Topics include the necessity for such units, the changing nature of communities and policing in America, the principles of crisis management, the development/implementation of SOUs, selection/training/operationalizing of personnel, and types of SOUs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4326. Women and Criminal Justice.**

This course is designed to explore women's involvement in three primary areas of criminal justice-as victims, criminals and practitioners employed in criminal justice agencies. It will analyze the impact of sex and gender on such things as criminological theory, sentencing, prison subcultures victimization and career choices. Prerequisite: junior standing. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4327. Ethics of Social Control.**

This course is designed to explore moral decision making. Basic moral or ethical frameworks are applied to ethical decision which often need to be made in the criminal justice system. Prerequisite: junior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4329. Organized Crime.**

Survey of organized crime in contemporary society. Includes attention to crime types and methods, motivation, affiliations, and the effects of this type of criminality. Related legal and law enforcement perspectives will be covered, along with international and cyberspace issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4330. Cybercrime.**

This course introduces students to the concepts, technologies, techniques and legal and ethical issues associated with cybercrime, security, and computer forensics. Students will gain knowledge regarding development of national and international computer crime law, crimes unique to computer environments, and traditional crime involving computers and the Internet

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4331. Serial Murder.**

This course covers the phenomenon of serial murder and the police investigative response. Theories, concepts, and law enforcement analytic methods are covered in detail. Emphasis is placed on understanding the reality versus the myth of serial murder, serial killers, and criminal profiling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4332. Advanced Criminal Justice Management.**

A critical analysis of the nature of organizations within the criminal justice system. An analysis of theories of organizations and of organizational changes within law enforcement agencies. An examination of the quantitative data gathered by the Criminal Justice System and its effective use and presentation. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4340. Crime Theory and Victimization.**

Examination of the causes of crime and crime victimization and competing explanations for crime and the impact of crime on crime victims. This course draws on perspectives advanced by a number of diverse fields of inquiry, for example, biology, psychology, sociology, and the political and economic sciences. Prerequisites: CJ 1310 and CJ 3300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4350. Contemporary Legal Issues in Law Enforcement.**

An in-depth study of recent developments in criminal law and procedure. Their effects upon the criminal justice agency official in society will be given special attention. Includes specific case studies with emphasis on analyzing factual situations and legal issues. Prerequisites: CJ 1310, and CJ 2310. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4352. Contemporary Legal Issues in Corrections.**

A study of the developing body of law defining the rights and duties of persons confined in penal institutions with equal emphasis on legal issues associated with probationers, parolees, and similar status's within the corrections branch of the criminal justice system. Prerequisites: CJ 1310 and CJ 2355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4362. Readings in Criminal Justice.**

An individualized readings course tailored to the academic and professional interests and needs of the student. Emphasis is placed on developing in-depth knowledge of selected criminal justice subjects through directed research. Repeatable for credit with different emphasis. (Permission of instructor is required for course registration.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CJ 4363. Independent Studies in Criminal Justice.**

Independent study and research on topics in criminal justice related to a student's primary area of interest. Work may include individual research, critical reviews or integration of existing body of knowledge. Course may be repeated with different emphasis once for credit with approval of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CJ 4365. Comparative Criminal Justice.**

A survey of the organizational, administrative and philosophical principles of criminal justice systems around the world. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice (Internship Option)

**Minimum required: 120 semester hours**

### General Requirement

1. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3
PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1
	31
Sophomore	Hours
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	
PSY 2301 & PSY 2101	
	30
Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3346	3
CJ advanced elective	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8
	29
Senior	Hours
CJ 4301	3
CJ 4302	3
CJ 4310	3
CJ 4340	3

CJ 4350 or 4352	3
Advanced elective	3
Advanced elective or Minor	6
Electives or Minor	6
<hr/>	
	30

Total Hours: 120

<sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.

## Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice (Non-Internship Option)

**Minimum required: 120 semester hours**

### General Requirement

1. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. This can be satisfied by the electives in the junior or senior year. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3
PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1
<hr/>	
	31

Sophomore	Hours
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	

PSY 2301 & PSY 2101	
<hr/>	
	30

Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3346	3
CJ advanced elective	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8
<hr/>	
	29

Senior	Hours
CJ 4365	3
CJ advanced elective	3
CJ 4310	3
CJ 4340	3
CJ 4350 or 4352	3
CJ Advanced elective	3
Advanced elective or Minor	6
Electives or Minor	6
<hr/>	
	30

Total Hours: 120

<sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.

## Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice Corrections (Internship Option)

**Minimum required: 120 semester hours**

### General Requirement

1. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. This can be satisfied by the electives in the junior or senior year. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3

Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3
PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1

31

Sophomore	Hours
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	
PSY 2301 & PSY 2101	

30

Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3325	3
CJ 3346	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8

29

Senior	Hours
CJ 4301	3
CJ 4302	3
CJ 4310	3
CJ 4316	3
CJ 4340	3
CJ 4352	3
Advanced electives or Minor	6
Electives or Minor	6

30

Total Hours: 120

<sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.

## Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice Corrections (Non-Internship Option)

### Minimum required: 120 semester hours General Requirement

1. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. This can be satisfied by the electives in the junior or senior year. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3
PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1

31

Sophomore	Hours
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	
PSY 2301 & PSY 2101	

30

Junior	Hours
Select one of the following:	3

ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3325	3
CJ 3346	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8
	29
<b>Senior</b>	<b>Hours</b>
CJ 4365	3
CJ advanced elective	3
CJ 4310	3
CJ 4316	3
CJ 4340	3
CJ 4352	3
Advanced electives or Minor	6
Electives or Minor	6
	30

Total Hours: 120

<sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.

# Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice Law Enforcement (Internship Option)

**Minimum required: 120 semester hours**

## General Requirement

1. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. This can be satisfied by the electives in the junior or senior year. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman</b>	<b>Hours</b>
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3

PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1
	31
<b>Sophomore</b>	<b>Hours</b>
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	
PSY 2301 & PSY 2101	
	30

<b>Junior</b>	<b>Hours</b>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3329	3
CJ 3346	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8
	29
<b>Senior</b>	<b>Hours</b>
CJ 4301	3
CJ 4302	3
CJ 4310	3
CJ 4332	3
CJ 4340	3
CJ 4350	3
Advanced electives or Minor	6
Electives or Minor	6
	30

Total Hours: 120

<sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.



# Bachelor of Science in Criminal Justice (B.S.C.J.) Major in Criminal Justice Law Enforcement (Non-Internship Option)

**Minimum required: 120 semester hours**

## General Requirement

- If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. This can be satisfied by the electives in the junior or senior year. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CJ 1310	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
POSI 2310	3
PHIL 1305 or 1320	3
PSY 1300	3
SOCI 1310	3
US 1100	1
	31

Sophomore	Hours
CJ 2310	3
CJ 2350	3
CJ 2355	3
CJ 2360	3
CS 1308 or CIS 1323	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Statistics - Select one of the following:	3-4
CJ 3347	
MATH 2328	
SOCI 3307 <sup>1</sup>	
PSY 2301 & PSY 2101	
	30

Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	

TH 2313	
CJ 3300	3
CJ 3323	3
CJ 3329	3
CJ 3346	3
ENG Literature	3
Advanced electives or Minor	3
Electives or Minor	8
	29

Senior	Hours
CJ 4365	3
CJ advanced elective	3
CJ 4310	3
CJ 4332	3
CJ 4340	3
CJ 4350	3
Advanced electives or Minor	6
Electives or Minor	6
	30

Total Hours: 120

- <sup>1</sup> For the Statistics requirement, SOCI 3307 is recommended for Sociology minors.

## Minor in Criminal Justice

A minor in Criminal Justice requires 18 hours, which includes:

CJ 1310	Introduction to Criminal Justice	3
Select 6 hours from the following criminal justice core:		6
CJ 2310	Police Systems and Practices	
CJ 2350	The Courts and Criminal Procedure	
CJ 2355	Correctional Systems and Practices	
CJ 2360	Fundamentals of Criminal Law	
Advanced CJ hours		9
Total Hours		18

## School of Family and Consumer Sciences

Family and Consumer Sciences Building Room 101  
 T: 512.245.2155 F: 512.245.3829  
[www.fcs.txstate.edu](http://www.fcs.txstate.edu) (<http://www.fcs.txstate.edu>)

## Major in Consumer Affairs

Majors have a choice of three different tracks. Students choosing the Consumer Affairs track study family financial decisions, financial counseling and the role of the consumer in the economy and select a minor. Students prepare for careers in financial counseling, business consumer liaisons, consumer advocates, or government agency employees. In the Family and Consumer Science track, students take courses from all areas of Family and Consumer Sciences and select a minor. Graduates seek employment in business, the extension service, and community agencies. The teacher certification option, approved by the Texas Education Agency, certifies graduates to teach Family and Consumer Science in 6-12th grades. See note below regarding

admittance to the Child Development Center and Texas Teacher Certification Requirements.

## Major in Family and Child Development

Students prepare for careers in public and private family and child support programs and community agencies including Early Childhood Intervention, Child Protective Services, foster care and adoption programs, health care, and early care and education facilities. Using an interdisciplinary approach, students focus on human development and relationships across the lifespan. As a condition for participation in a child development class that requires either observation or participation at the campus Child Development Center, students must undergo a criminal background check and provide verification of an annual TB test. See note below regarding admittance to the Child Development Center and Texas Teacher Certification Requirements.

## Major in Fashion Merchandising

Fashion Merchandising majors are prepared for a variety of careers in the fashion industry including: retail management, buying, planning, allocating, fashion marketing and promotions. Students gain valuable hands-on experience through computer-based assignments, cutting-edge merchandising technology, internships, and study tours. Majors are required to complete a business administration minor to enhance their preparation for the fashion industry

## Major in Interior Design

The interior design major prepares students for careers in all areas of the field, including residential and commercial interior design. The program is accredited by the Council for Interior Design Accreditation (CIDA), the recognized accrediting agency for the discipline in the United States and Canada. Students learn to develop and communicate design concepts, solve design problems, and present solutions in an effective and professional manner. They also learn the specific knowledge and skills necessary to practice interior design, such as color theory, design history, hand and computer drafting, space planning, selection of interior finishes, building codes, and interior lighting..

## Major in Nutrition and Foods

Majors study the relationships between the dietary intake of whole foods, processed foods, functional foods and dietary supplements with the health of individuals and populations. Majors prepare for careers in medical nutrition therapy, food service administration, public health nutrition programs, government agencies, private practice, and consulting. The program also prepares majors for pursuing advanced degrees, academic research, and careers in food and wellness industries. The Dietetics track is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and also fulfills didactic requirements for Texas licensing. Graduates of this track will receive a Verification Statement and are qualified to apply for post-graduate dietetic internships in pursuit of Registered Dietitian certification. See note below regarding admittance to the Child Development Center and Texas Teacher Certification Requirements.

### **Note: Admittance to the Child Development Center and Texas Teacher Certification Program**

Be advised that in the State of Texas, criminal convictions may affect a person's ability to be present in a Licensed or Certified Child Care facility (Chapter 42, Human Resources Code) or obtain teacher certification from the Texas State Board for Educator Certification (Chapter 232, Subchapter C, Texas Administrative Code). Therefore, students enrolling

in course work which requires any of the following: observation or participation at the campus Child Development Center; or observing or student teaching in K-12 grade Texas schools must undergo a criminal background check. Criminal history will be reviewed and students may be subject to an investigation based on that criminal history. Furthermore, before teacher certification is granted, applicants will be required to submit fingerprints in a digital format that can be processed by Texas Department of Public Safety.

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.)

- Major in Consumer Affairs (p. 121)
- Major in Consumer Affairs (Family and Consumer Sciences Option) (p. 121)
- Major in Consumer Affairs (Teacher Certification in Family and Consumer Sciences, Grades 6-12) (p. 122)
- Major in Family and Child Development (p. 123)
- Major in Family and Child Development (Teacher Certification in Human Development and Family Studies, Grades 8-12) (p. 124)
- Major in Fashion Merchandising (p. 125)
- Major in Interior Design (p. 125)
- Major in Nutrition and Foods (p. 126)
- Major in Nutrition and Foods (Dietetics Track) (p. 127)
- Major in Nutrition and Foods (Teacher Certification in Hospitality, Nutrition, and Food Sciences, Grades 8-12) (p. 128)

## Minors

- Consumer Affairs
- Early Childhood Intervention
- Family and Child Development
- Family and Consumer Sciences
- Fashion Merchandising

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this school include: CA (p. 110), FCD (p. 112), FCS (p. 114), FM (p. 114), ID (p. 116), NUTR (p. 118)**

## Courses in Consumer Affairs (CA)

**CA 1341. Consumers in the Marketplace.**

This course is an introduction to consumerism. Topics covered include: the consumer's role in the economy; consumer responses to the pressures of the economy (credit, inflation, and savings); and an analysis of the largest consumer expenditures (housing, food, and transportation) **3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ECON 1303

**CA 1347. Family and Personal Resource Management.**

This course focuses on the analysis of family and personal management processes including resource identification and factors that impact management and decision making. Contemporary issues in the field such as changing family roles, one-parent families, aging, the handicapped, low income families, one-person family and alternate lifestyles will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 2341. Digital Applications in Consumer Finance.**

This course provides students with an understanding of technology applications used to analyze consumer's financial situation, needs, and goals. Topics include constructing personal financial statements; cash flow; time value of money related to education, retirement, life insurance; and amortization. Students will use calculators, Microsoft Excel and personal financial planning software. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 3341. Family Finance.**

In this course students will examine personal/family financial management during different stages of the family life cycle. Topics include budgeting/recordkeeping to achieve economic goals, the role of credit and the need for financial counseling; economic risks and available protection; and alternative forms of saving and investments. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 3342. Consumer Law.**

This course explores the relationship between consumer laws (federal and state) and policy. Topics include consumer protection legislation which defines the consumer's rights/responsibilities and the appropriate avenues of redress on the part of the consumer. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 3351. Consumer Financial Management I.**

Principles and practices of individual and family financial management relating to insurance needs and selection, investment strategies to realize financial goals and income tax planning to improve financial well-being will be addressed. Technical skills required of financial counselors, planners and human resource management are emphasized. Prerequisites: CA 1341 and CA 2341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 3352. Consumer Financial Management II.**

Principles and practices of individual and family financial management relating to retirement and estate planning to improve financial well-being will be presented. Technical skills required of financial counselors, planners and human resource management will be emphasized. Prerequisites: CA 1341 and CA 2341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 3391. Communication Skills and Techniques.**

This course covers the analysis of factors that influence program planning and the application of program development for entities with differing purposes and organizational structure. Students plan, develop, and implement using alternative methods, such as audio-visuals, demonstration techniques, radio and television, with emphasis on methods for use with adults. Restricted to students in the School of Family and Consumer Sciences

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 4100. Professional Preparation in Consumer Affairs.**

Students explore Consumer Affairs in the professional world and continuing education through opportunities, interviews, and professional ethics while practicing the development of credentials and portfolios. Required of all seniors majoring in Consumer Affairs

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 4301. Internship in Consumer Affairs.**

This course is an Internship program in Consumer Affairs related professions, services, business, or industry. Must meet college, department and program requirements. Repeatable for credit with different emphasis. (Capstone Course) (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**CA 4341. Counseling for Family Practitioners.**

This course is an in-depth study of the role of the financial counselor. Topics covered will increase awareness and knowledge of the characteristics of persons with financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and helped, and an awareness of community resources. Prerequisite: CA 3341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 4342. Financial Counseling Practicum.**

This course focuses on applying financial counseling and consulting skills consistent with accepting financial counselor roles. Content includes theoretical models of financial counseling. Prerequisite: CA 3342 and CA 4341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CA 4391. Independent Study in Consumer Affairs.**

This course involves independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. Course may be repeated once for credit with approval of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Courses in Family and Child Development (FCD)

### FCD 1351. Lifespan Development.

Developmental principles underlying behavior as experienced in physical, intellectual, emotional and social changes across the lifespan. Emphasis will be on adult development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 2351. Child Development.

The development of the total child from conception through adolescence. Observation in Child Development Center

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### FCD 2353. Principles of Guidance.

Students will examine research, theory, and developmentally appropriate practices related to children's social development and child guidance.

Participation in the Child Development Center is required. Restricted to Family and Child Development majors. Prerequisite: FCD 2351

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### FCD 2357. Infants and Toddlers.

This course focuses on understanding and enhancing the development of infants and toddlers in home and group settings. Emphasis is on experiences that promote physical, cognitive, language, and social/emotional development

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### FCD 3344. Introduction to Infant and Early Childhood Mental Health.

This course is an introduction to the interdisciplinary understanding of the social and emotional development of infants and young children within the context of the family. The role of the infant mental health specialist in strengthening the development of young children will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3345. Methods in Child Life.

This course focuses on the applied techniques of the Child Life profession. The course will include medical diagnosis terminology, patient assessment, therapeutic techniques and interventions utilized in child life clinical practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3346. Families in Southeast Asia.

This course will focus on how children and families negotiate their daily lives in Southeast Asia. Topics will include a broad overview of issues relevant to Southeast Asian children and families in addition to more detailed analysis of the unique experiences of specific ethnic groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3350. Sexuality Across the Lifespan.

A study of sexuality development as it relates to current critical issues for families and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3351. Creative Experiences for Children.

This course focuses on developmentally appropriate methods, materials, and planning for children's programs through language, literature, music, art, play, social studies, math, and science. Participation in the Child Development Center is required. Prerequisite: FCD 2353

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### FCD 3352. Development of Programs for Young Children.

The study of group care programs for children including development, implementation and assessment of developmentally appropriate programs. Various theoretical and philosophical components will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3353. Family Life Education.

Study of relationships between core knowledge, educational practice, and audience characteristics in family life education. Translation of research-based knowledge about family life into education materials and presentations suitable for families. Opportunity to develop, implement, and evaluate a family life education presentation. Prerequisites: FCD 2353 and FCD 3355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### FCD 3354. Creative Experiences: STEM.

This course focuses on the study and application of STEM (science, technology, engineering, and math) concepts in preschool classrooms. Students will examine research, theory, and best practices to plan and implement developmentally appropriate STEM methods, materials, and activities. Participation at Child Development Center required. Prerequisite: FCD 2353 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### FCD 3355. Family Relationships.

This course will cover a broad range of research-based topics including the universality and uniqueness of American families, the establishment and maintenance of intimate relationships, family formation and parenthood, and various other aspects related to individual and family relationships over time

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCD 3356. Introduction to Early Childhood Intervention.

This course provides an interdisciplinary orientation to the professional discipline of early childhood intervention and the early intervention specialist

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3358. Practicum in Child Development.**

Structured practical experience in child development center.  
Prerequisites: FCD 2353, FCD 2357, and FCD 3351 or approval of instructor

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 3359. Family Diversity.**

This course will explore both the internal dynamics and external environments of diverse family forms – including prevalence, social conditions leading to and sustaining their existence, common stereotypes, and recent research. Prerequisite: FCD 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3394. Adolescent Development.**

A study of adolescence as it relates to current critical issues for families and society. The course will focus on specific techniques to analyze and assist the development of adolescents. Emphasis will be on theory and research as it explains the development process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4301. Internship in Family and Child Development.**

Internship program in Family and Child Development – related professions, services, industry, or business. Must meet college, department, and program requirements. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**FCD 4302C. Conducting Research on Latino Families.**

This course is an introduction to research with Latino families. Through the course students will explore current research issues via reviewing research articles. Students will also conduct research with Latino families, gaining important research experience. Prerequisite: Minimum 2.5 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302D. Language, Literacy, and Children's Literature.**

Students will explore the foundations of children's language development and literacy skills using the various forms and genres of children's literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302E. Latino Youth and Families.**

This course is an introduction to research regarding the development of Latino youth and families, exploring the most common physical, cognitive, and socio-emotional aspects of development. Students will learn that these changes are dynamically interrelated and diverse, often depending on factors such as gender and cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302F. Middle Childhood Development.**

This course will focus on the typical developmental characteristics of children between the ages of six and twelve years across physical, motor, cognitive, language, social, and emotional domains. Students will explore developmentally appropriate out-of-school-time programs, including environments and activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4351. Cultural Diversity of Families.**

Students will study cultural diversity with an emphasis on different racial and/or ethnic groups, religions, and social classes. Students will explore selected family science research methods and topics including family function, family life patterns, multicultural groups, agents of enculturation, and family life education as they relate to cultural diversity.

Prerequisite: FCD 3355. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FCD 4352. Administration of Programs for Children.**

Addresses the history, philosophy, and ethics of programs for young children. Emphasis on responsibilities of the child care administrator in relation to staff, budgets, facility laws, and standards of agency management. Prerequisite: FCD 2353 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4353. Hospitalized Child: Introduction to Child Life.**

This course introduces students to theoretical and practical methods of working with children and their families in health care settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4355. Family Interaction.**

Study and comparison of family interaction and process across various family structures and transitions. Investigation of interaction strategies to enhance successful family function across various family structures and transitions. Prerequisite: FCD 3355 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4356. Administration of Human Service Organizations.**

Students will study the implementation of non-profit family and child development programs. Emphasis will be on the leadership and management of human service organizations including program staffing, strategic planning, problem solving, grant writing, and ethical leadership.

Prerequisite: FCD 2353 and FCD 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4357. Comparative Studies in Child Development.**

The study of early care and education systems including goals, funding and regulation through participation in international exchange programs. The role of government policies in the development and implementation of systems will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**FCD 4391. Independent Study in Family and Child Development.**

Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

## Courses in Family and Consumer Sciences (FCS)

Many of the subject-matter courses in Family and Consumer Sciences are open to non-majors as electives.

**FCS 4101. Special Problems in Family and Consumer Sciences.**

A study of selected areas of Family and Consumer Sciences. Repeatable for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**FCS 4303. Research Procedures in Family & Consumer Sciences.**

The study and implementation of research procedures for use with family and consumer sciences programs. Includes instrument selection, recruitment and testing of subjects, coding, analysis and dissemination of data. Will include field based experiences using appropriate research procedures. Restricted to Senior Standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4304A. Family Finance II.**

This course is a study of financial management for individuals and families. Topics include financial inequality, investments, retirement planning, and estate planning. Prerequisite: CA 3341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCS 4340. International Study in Family and Consumer Sciences.**

Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on cultural awareness and its application within FCS professions. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4343. Occupational Education in FCS.**

Its purpose is to help prepare students for teacher certification and teach occupational education content in 11-12 grade FCS classrooms. Occupational education course in 11-12 grades such as Services for Older Adults, Hospitality Services, Childcare and Guidance and Food Production, management and services are designed for students to gain extensive management skills and practical work experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 4344. Instructional Management for Family and Consumer Sciences.**

This course provides students with hands-on application of the Texas Teaching Proficiencies adopted by the State Board of Education. Principles and practices specifically needed for managing the FCS classroom will be addressed. Prerequisite: FCS 4343. Co-requisite: FCS 4681

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 4347. Family Policy.**

This course is an examination of policy-making and the significance of national, state and local policies that affect families. Students will analyze social policies, including government programs and legislation, and discuss how to influence change in policies. Use of the Internet and computer software programs such as Word, PowerPoint, and others required. Requires Senior Standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4681. Family and Consumer Sciences: Principles and Process.**

Observation and participation in the total family and consumer science program. Requires a full day in the Teaching Center for ten weeks (five day week except for holidays in public school system). Prerequisites: FCS 3390 and completion of all required Family and Consumer Sciences courses

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Courses in Fashion Merchandising (FM)

**FM 1330. Introduction to Fashion Merchandising.**

Survey of the fashion industry including an overview of the development, production and distribution of fashion goods and services

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** HECO 2311

**FM 1332. Textiles.**

A consumer-oriented study of the relationship of fibers, fabrics, and textile product end-uses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** HECO 1320

**FM 2330. Fashion Promotional Strategies I.**

The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques used at the retail level. Prerequisite: FM 1330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 2334. Textile Product Analysis.**

The study of textile product quality control issues important to manufacturers, retailers, and consumers. Emphasis is placed on evaluating quality based on appearance, cost, durability, and end-use of textile products. Prerequisites: FM 1330 and FM 1332

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 2335. Gender, Appearance, and Society.**

The investigation of the role of dress and appearance in nonverbal communication, development of the self and gender identity, and social interactions of individuals with a particular emphasis on diverse appearances by various cultural groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 2336. Introduction to Merchandising Technology.**

This course introduces new technologies and industry software used in the merchandising industry and prepares students to take advanced courses that rely on these technologies and software. Topics include Adobe Photoshop and Illustrator, Microsoft Excel, SPSS statistics, and Space Planning software

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 3330. Fashion Buying Principles I.**

Quantitative concepts used in merchandising fashion goods with an emphasis on profitability. Prerequisites: FM 2334 or FM 2336; and MATH 1315 or MATH 1316 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 3332. Fashion Promotional Strategies II.**

The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques initiated by manufacturers and wholesalers of fashion products. Prerequisites: FM 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 3334. Fashion Merchandising Administration.**

The study of human resource management in the fashion industry including recruitment, development, assessment, and compensation. Prerequisite: FM 1330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 3335. Pre-history to Renaissance Textiles, Dress and Adornment.**

Survey of textiles, dress and adornment from pre-history through the ancient Eastern and Middle Eastern cultures to the development of Western civilization ending with the Northern Renaissance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 3336. Baroque to Modern Western Dress and Adornment.**

Chronological study of Western dress and adornment from the Baroque period through modern times. Emphasis on the socio-economic, political, and technological factors contributing to the evolution of fashion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 4101. Special Problems in Fashion Merchandising.**

A study of selected areas of Fashion Merchandising. Repeatable for credit with different emphasis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4111. Specialty Fashion Markets: Career Day.**

On-site study of current textile, merchandising, retail and promotional trends and fashion career related topics. Prerequisite: FM 1330 and FM 1332

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4122. Special Events: Fashion.**

The study of all facets involved in planning, organizing, and implementation of a fashion related special event. Prerequisite: FM 2330

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4301. Internship in Fashion Merchandising.**

This course is an Internship in Fashion Merchandising-related professions focused on production, distribution, or retailing of fashion goods, or auxiliary services. Repeatable for credit once. Prerequisite: FM 3334. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**FM 4302A. Special Events Planning.**

An in-depth study of selected topics and emerging issues related to the planning of special events. Emphasis will be on planning, organizing, implementing and evaluating special events

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4302B. Specialty Fashion Markets.**

An in-depth study of specialty fashion markets including historic background; significance of the market; terminology; product assortment, development, production and distribution; and trend analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4302F. Trends Forecasting and Social Media.**

This special topics course in Fashion Merchandising will focus on specific methods for forecasting fashion trends and the role of social media in the diffusion of fashion trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4320. Fashion Merchandising in Domestic Markets.**

An on-site study of domestic fashion market centers. Course examines the design, production, and distribution of fashion products and services at various market levels. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4331. Fashion Buying Principles II.**

This course is a study of the fashion merchandise buyer, planner, and allocator roles emphasizing retail merchandising functions. These include developing merchandise plans, selecting products, and negotiating terms. Using best-practice industry software, students will analyze merchandising data to manage inventory levels, and evaluate performance of sales and profit. Prerequisite: FM 3330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 4334. Fashion Product Development.**

The course will focus on fashion product development for target markets. Emphasis of the course will be placed on line development, product specification, color and textile selection, sizing and product costing. Prerequisites: FM 1332, and FM 2334 or FM 2336, with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 4335. Principles of Fashion Consumption.**

An analysis of variables, concepts and theories related to the role of the consumer in fashion and fashion product consumption. Prerequisite: FM 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 4337. Fashion Merchandising.**

The study of managerial decisions in fashion retailing with an emphasis on operational issues. Prerequisites: FM 1330, FM 2330, FM 3330, and FM 3334, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**FM 4338. Enterprise Development.**

Principles and procedures used in creating successful enterprises to meet consumer demand, including consumer research, logistical issues, and strategic planning. Examines various product and service offerings in traditional and non-traditional outlets

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 4339. Fashion Economics.**

Economic perspective of textile products, production and global sourcing with emphasis on U.S. fashion industries. Prerequisite: FM 1330, FM 1332, and ECO 2301, or ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**FM 4340. Fashion Merchandising in International Markets.**

Study of Fashion Merchandising topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Fashion Merchandising professions. Repeatable for credit with different emphasis. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content  
**Grade Mode:** Standard Letter

**FM 4391. Independent Study in Fashion Merchandising.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature or other appropriate independent work. May be repeated once for credit with approval of instructor. Prerequisites: FM 1330 and consent of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

## Courses in Interior Design (ID)

**ID 1320. Design Graphics I.**

This course provides specialized training in manual graphic communication required in the interior design profession. It includes architectural drafting, illustrative sketching, design diagramming and schematics, and basics of orthographic and perspective drawing with emphasis in both technical and aesthetic expression. Prerequisite: Interior Design majors only or consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 1321. Introduction to Design.**

Elements and principles of design as applied to the individual and his/her environment

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**ID 2321. History of Interiors.**

Survey of historical styles of furnishings, architecture, and interiors from the Egyptian period to the Industrial Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 2322. Basic Interior Design.**

This course is an introductory lecture course for Interior Design majors, analyzing the elements and principles of design as applied to interior environments. The fundamentals of professional requirements, human factors, space planning, properties and applications of interior materials and systems, and components of style will be emphasized. Prerequisites: ID 1320, ID 1321, and ARTF 1302; all with at least a grade of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 2323. Design Development.**

This course is an introduction to the process of design development and planning of interior space with an emphasis on graphic visualization as a creative process and design tool. Prerequisite: ID 2322. Pre or Corequisite: ID 2321 and ARTC 2305; all prerequisites must be completed with a grade of "C" or better

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 2325. Materials and Sources.**

This course is an in-depth study of materials and finishes specified for residential and commercial interiors. Material properties, fabrication, installation methods, applications, sustainability, maintenance requirements and sourcing are addressed. Prerequisites: ID 2322 and ID 2329 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 2329. Housing and the Environment.**

Introduction to environmental factors related to human habitation. Investigates housing from global, ecological, social, physical, and spatial perspectives. Includes principles of sustainable resources, energy management, structural and mechanical systems, and interior materials and finishes. For Interior Design majors only or consent of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3220. Design Graphics II.**

In this course students are exposed to various techniques of computer integration in the design environment with special emphasis on augmentation of the design process and presentation methodologies using digital media. Prerequisite: ID 2323 with a C or higher  
**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3321. Contemporary Interiors and Architecture.**

A survey of contemporary styles of furnishings, architecture, and interiors from the 19th century to the present. Prerequisite: ID 2321 with grade of "C" or higher. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ID 3322. Studio I: Residential Interior Design.**

This course is the beginning studio experience which introduces students to various dimensions, purposes, and characters relative to the small and large residential spaces. Prerequisites: ID 2321, ID 2322, ID 2323, ID 2329 and ARTC 2305. Corequisite: ID 3325 or ID 3326. Prerequisite or co-requisite: ID 2325; all with at least a grade of C  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3323. Studio II: Commercial Interior Design.**

This course focuses on the analysis, planning, design and furnishing of small to moderate commercial and other non-residential spaces. Topics include design programming, the design development process, simple contract document preparation and visual and verbal presentation methods. Prerequisites: ID 2325, ID 3322 and CSM 2313. Corequisites: ID 3220; ID 3325 or ID 3326; CSM 4313. All with at least a grade of C  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3324. Professional Practices.**

A study of the business principles, ethics, and procedures for the interior designer. Prerequisite or co-requisite: ID 3322. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ID 3325. Interior Lighting Design.**

The study of natural and manufactured light sources relative to the interior environment. Emphasis is on light science and technology and the effects on health, behavior, color and form. Includes issues of aesthetics, energy conservation, codes, evaluation, and specifications. Prerequisites: ID 2322, ID 2323, and ID 2329 with grades of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3326. Comprehensive Interior Design.**

Advanced study of materials, systems, codes and other factors relating to public health, safety, and welfare in interior environments. Lecture and application of resources, materials and design technologies. Addresses specifying, scheduling, budgeting, and resource conservation. Prerequisites: ID 2322, 2323, 2329 with grades of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 3329. Housing, Interiors, and Furnishings.**

An application of the basic design principles in planning, designing, and furnishing interiors for contemporary living to reflect function, economy, beauty, and individuality for varying income levels. For non-Interior Design majors only  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4101. Special Problems in Interior Design.**

A study of selected areas of Interior Design  
**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ID 4120. Portfolio Design.**

Portfolio preparation and production for seeking employment with design firms. Includes instruction on graphic and publication design, business structures and portfolio strategies. For graduating interior design majors. Prerequisites: ID 3220 and ID 4323 with grades of "C" or higher  
**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4220. Portfolio Development.**

Focuses on portfolio development in preparation for the workplace. Addresses principles of visual and verbal communication, portfolio content and presentation techniques. Requires upgrading and archiving of studio projects, and investigating alternative presentation methods. Prerequisite: ID 4323  
**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4301. Internship in Interior Design.**

Internship experience in the Interior Design profession. Must meet college, department, and program requirements. (Capstone Course)  
Prerequisites: ID 3321, ID 3323, ID 3324, ID 3325, and ID 3326. (WI)  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ID 4302A. Historic Preservation.**

Introduction to the field of historic preservation, including history, theory, planning, advocacy, law, conservation, and adaptive use, emphasizing the Secretary of the Interior's Standards for Rehabilitation. Students combine design and technical knowledge to approach historical design problems in creative, sensitive, and economical ways. Prerequisites: ID 2321, ID 3321, and ID 3322  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter



**ID 4302B. Digital Interior Design.**

Exploration of computer technology resources, including CADD and three dimensional modeling programs, for the solution of interior design problems. Emphasis on the integration of technology as part of the design process as well as the production of presentation graphics and drawings. Prerequisites: ID 3322, TECH 2313 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4302C. Lighting Research and Applications.**

An in-depth study of light and color and its impact on people's behavior in interior environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4302D. Manual Design Graphics.**

Introduces illustrative sketching, three-dimensional graphics and rendering techniques of interiors. Pre-requisites: ARTF 1302, ID 1320, and ID 1321

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4302E. Interior Design – Critique.**

Qualitative assessment of the built environment; specifically Interior Design. Basic research methodologies will be introduced. Existing critical design analysis will be studied to develop a design-analysis rubric. Site visits to conduct design analysis and written critique of a selected regional project are required. Prerequisites: ID 2323 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4302F. Color Theory and Design Applications.**

An introduction to color theory and principles with a fundamental understanding of the psychological and physiological effects color has on human perception. Characteristics of major hues which influence design and behavior and how to use, design, and apply color in the creative process will be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4302G. Color Theory & Design Applications.**

An introduction to color theory and principles with a fundamental understanding of the psychological and physiological effects color has on human perception. Characteristics of major hues which influence design and behavior and how to use, design, and apply color in the creative process will be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ID 4323. Studio III: Research and Advanced Commercial Interior Design.**

This course expands student understanding and application of design research methods including evidence-based design in the commercial interior environment. Topics include advanced design research methods, programming and large-scale space planning, finish selection/specifying, furnishings design and detailing, and presentation strategies through creative problem solving and contract document preparation. Open to ID Majors only. Prerequisites: ID 3321, ID 3323, ID 3325, ID 3326, and ID 2325; CSM 4313; all prerequisites with at least a C grade

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 4324. Studio IV: Contemporary Design Issues.**

This course requires students to conduct specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive re-use, international interiors, energy issues, sustainable design and design for special needs. Prerequisites: ID 2325, ID 3321, ID 3323, ID 3325, ID 3326, and ID 4323; CSM 4313; all prerequisites with at least a C grade

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 4340. Interior Design in International Markets.**

Study of Interior Design topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Interior Design. Repeatable for credit with different emphasis. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

**ID 4391. Independent Study in Interior Design.**

Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Nutrition and Foods (NUTR)

**NUTR 1162. Food Systems Laboratory.**

This course provides for application of the management techniques and concepts of planning, preparation, cost analysis, and evaluation covered in NUTR 1362. Pre or Co-requisite: NUTR 1362

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 1362. Food Systems.**

Nutrition, food science, and management principles in planning, procuring, preparing, preserving, evaluating, and serving food to fulfill dietary requirements of individuals and diverse cultural groups. Includes federal legislation, environmental issues, and culinary principles. Pre or Co-requisite: NUTR 1162

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**NUTR 2162. Food Science Laboratory.**

Students engage in laboratory techniques and exercises related to food, chemistry, microbiology, nutrition, food palatability, and food safety.

Prerequisite: NUTR 2360 with grade of C or higher. Co- or prerequisite: NUTR 2362

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 2360. Nutrition Science.**

The science of human nutrition with emphasis on nutrient digestion, absorption, and excretion; nutrient metabolism, requirements, and sources. Prerequisite: Three semester hours of science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1322

**NUTR 2361. Nutritional Assessment.**

This course teaches the principles and techniques of assessing nutritional status, presents interviewing and nutrition counseling theories, development of individualized treatment plans and educational tools, and accessing community nutrition resources. Practical application is provided through assignments and in-class experiences. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 2362. Food Science.**

Students learn the scientific principles underlying the relationships among food, chemistry, microbiology, nutrition, and food safety as related to the major food groups. Prerequisites: 3 hours of chemistry or biology, and NUTR 2360 with grade of C or higher. Co- or prerequisite: NUTR 2162

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3166. Advanced Food Science Laboratory.**

This lab teaches different techniques and protocols used in physical, chemical, colorimetric, spectrophotometric, molecular, and microbiological analysis of food components and assessment of food quality, stability, and safety. Different bioprocessing techniques to improve the quality of food will also be performed. Prerequisites: NUTR 2362, NUTR 2162, CHEM 1341, CHEM 1342. Co-requisite: NUTR 3366

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3362. Nutrition and Health.**

For non-science majors. Involves the study of the nutrients and their function in promoting health throughout the life span. Includes standards for consumer selection of a proper diet and analysis of nutrition-related health problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3363. Nutrition for Wellness and Fitness.**

Students will study the causes and treatment of overweight and obesity and the effects of dietary and lifestyle choices on attainment and maintenance of health and prevention of chronic diseases. Basic exercise physiology is introduced and dietary recommendations for sports, fitness and prevention of eating disorders are also presented. Prerequisites: NUTR 2361 and NUTR 3367; BIO 2430, or BIO 2451 and BIO 2452, all with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3364. The Science of Nutrition and Exercise.**

This course focuses on basic nutritional science, with emphasis on the physiological and biochemical importance of nutrition to physical performance, health, and fitness. The use and efficacy of ergogenic aids will be investigated. The course requires reading and interpreting the scientific literature. Restricted to students majoring in Athletic Training, Exercise Sports Science, Family and Consumer Sciences, Health & Fitness Management, or Health & Wellness Promotion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3366. Advanced Food Science.**

This course provides an examination of the chemistry, morphology, concentration, and compartmentalization of cellular components in food; the effect of storage and processing on molecular levels of food quality; the kinetic behavior, activity, and stability of food enzymes and microbes, and their effect on food quality and safety. Prerequisites: NUTR 2162, NUTR 2362, CHEM 1341, CHEM 1342. Co-requisite: NUTR 3166

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3367. Nutrition and Physiology.**

This course integrates the study of nutrition with other biological sciences, focusing on cellular and molecular physiological processes related to digestion, absorption, transport, and metabolism of nutrients and other dietary components. Prerequisites: NUTR 2360 and BIO 2430 with grades of C or higher; and CHEM 1341, CHEM 1141, CHEM 1342, CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4101. Special Problems in Nutrition and Foods.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**NUTR 4167. Food Systems-Production & Management Laboratory.**

This course provides for the application of the management techniques and concepts of institutional food production covered in NUTR 4367. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher; Pre- or corequisite: NUTR 4367

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4301. Career Exploration in Nutrition and Foods.**

Students engage in applied experience under the supervision of a professional mentor in nutrition and foods-related professions, services, businesses, and/or research. Prerequisite: must meet college, department and program requirements. (WI)(Capstone Course)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4302C. Micronutrients.**

A study of the biochemical and physiological foundations of nutrition. Information pertaining to biochemical structure, metabolism and physiological regulation of minerals and fat-soluble vitamins.

Prerequisites: NUTR 2360 and NUTR 3365; Co-requisite: CHEM 2450

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**NUTR 4302E. Community Nutrition.**

A study of community nutrition programs addressing food insecurity, prevention and treatment of chronic diseases, and health promotion among special populations, including maternal, infant, child, adolescent and older adults. Review of national and international healthcare systems; program planning incorporating evidence-based intervention strategies. Prerequisite: NUTR 2360 or NUTR 3362; NUTR 4365

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**NUTR 4304. Functional Foods and Nutraceuticals.**

This course introduces students to functional foods, nutraceuticals and dietary supplements used to prevent and treat chronic and infectious diseases. Emphasis is placed on sources and mechanisms of action of dietary bioactives and addresses regulatory issues that govern the development and commercialization of these compounds. Prerequisites: NUTR 2360 or NUTR 3362; NUTR 3367; and two semesters of chemistry and/or biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4350. Hospitality.**

Focus on the principles underlying operations in the hospitality industry. Concepts include residential and lodging operations, guest expectations, food, beverage, and maintenance services, promotions, budget control, personnel and security

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4360. Medical Nutrition Therapy.**

This course explains the physiological and biochemical abnormalities of certain disease states of human body systems with emphasis on diet modification as a therapeutic measure. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or better; and NUTR 4365 with a grade of D or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4361. Biochemical Nutrition.**

A study of the biochemical and physiological foundations of nutrition. Information pertaining to cytology, biochemical structure of nutrients, energy transformations, nutrient-drug interactions, and the anatomy, physiology, and nutrient metabolism of major organ systems is covered. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or better; and NUTR 4365 with grade of D or better. Pre- or co-requisite: CHEM 2350 and CHEM 2150, or CHEM 3375, or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4362. Nutrition and Genetics.**

This course will examine the specific processes in intermediary nutrient metabolism and their genetic regulation. The effects of nutrients on gene expression, cell signaling, cell physiology, and disease processes will also be explored. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452; and BIO 2440 or BIO 2400, all with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4363. Nutrition Counseling and Education.**

Study of teaching/learning styles and development of counseling skills to improve the nutritional status of individuals, families, and groups.

Development of effective nutrition education materials and media communications. Prerequisites: NUTR 2361, 4365

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4365. Nutrition in the Life Span.**

This course provides for the in-depth study of the normal growth, development, and nutritional requirements associated with pre-pregnancy, pregnancy, infancy, childhood, adolescence, and the older adulthood. Prerequisites: NUTR 2361, NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4366. Ethics and Policy in Nutrition.**

This course addresses the influence of government, interest groups, media, and industry on nutrition policy decisions, public and private funding, nutrition education, the food supply and food choices, and includes discussion of ethical considerations that have an impact on public health. Prerequisites: NUTR 1362 with grade of C or higher; NUTR 4365. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4367. Food Systems-Production & Management.**

Students study the principles, policies, and procedures for planning, procurement, staffing, production, evaluation, and research in institutional food service. Topics include systems design, decision hierarchy, organizational structure, and personnel selection, training, and management. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher; Pre- or corequisite: NUTR 4167

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4391. Independent Study in Nutrition and Foods.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

# Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Consumer Affairs

**Minimum required: 120 semester hours**

## General Requirements

1. In addition to general education and departmental core requirements, this major requires specialized courses in consumer education, family and personal resource management, family finance, consumer law, family financial counseling and family policy.
2. Students participate in an internship in a related area.
3. MATH 1316 is not accepted as a prerequisite for courses in some minors.
4. A minor is required.
5. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CA 1341	3
CA 1347	3
Department Elective	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
Mathematics	3
PHIL 1305 or 1320	3
POSI 2310	3
	31
Sophomore	Hours
ID 2329	3
CA 3341	3
ACC 2301	3
Minor	3
ENG Literature	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Social and Behavioral Sciences	3
	30
Junior	Hours
CA 3342	3
CA 4341	3
FCS 4303	3
Minor (3 hours should be advanced)	9
ECO 2301	3
Select one of the following:	3
ART 2313	
DAN 2313	

MU 2313	
TH 2313	
Electives	7
	31
Senior	Hours
CA 3391	3
CA 4100	1
CA 4301	3
CA 4342	3
FCS 4347	3
FCD 3355 or 4351	3
FM 4338	3
Minor	6
Advanced Department Elective	3
	28

Total Hours: 120

# Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Consumer Affairs (Family and Consumer Sciences Option)

**Minimum required: 120 semester hours**

## General Requirements

1. In addition to general education core curriculum and departmental core requirements, the Consumer Affairs major is required to take courses in all areas of Family and Consumer Sciences.
2. Majors participate in an internship in a related area.
3. At least three hours of the electives must be advanced.
4. A minor is required.
5. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
CA 1341	3
FCD 1351	3
ID 1321	3
NUTR 1362	3
NUTR 1162	1
FM 1332 or 2335	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316 <sup>1</sup>	
MATH 1319	
POSI 2310	3
	32

Sophomore	Hours
CA 1347	3
NUTR 2360 or 3362	3
FCD 2351	3
ENG Literature	3
HIST 1320	3
PHIL 1305 or 1320	3
POSI 2320	3
Life and Physical Sciences	6
Electives	3
	30

Junior	Hours
CA 3341	3
CA 3342	3
ID 2329	3
FCD 3355 or 4351	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
Minor	9
Social and Behavioral Sciences	3
	30

Senior	Hours
CA 3391	3
CA 4100	1
CA 4301	3
CA 4341	3
Select one of the following:	3
CA 4342	
FM 4338	
FM 4302A	
FCS 4347	3
Minor (advanced)	9
Advanced Elective	3
	28

Total Hours: 120

<sup>1</sup> MATH 1316 is not accepted as a prerequisite for courses in some minors.

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Consumer Affairs (Teacher Certification in Family and Consumer Sciences, Grades 6-12)

**Minimum required: 120 semester hours**  
**General Requirements**

1. In addition to general education core curriculum and departmental core requirements, the Consumer Affairs major pursuing Teacher Certification in Family and Consumer Sciences is required to take from 6 to 12 semester hours in each of the following areas: nutrition and foods, family and child development, fashion merchandising, interior design, consumer science, and occupational family and consumer sciences.
2. Students must demonstrate competency in basic clothing construction techniques.
3. Students participate in student teaching for pre-professional experience.
4. No minor is required.
5. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
6. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	Hours
FM 1332	3
CA 1341	3
FCD 1351	3
NUTR 1362	3
NUTR 1162	1
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
POSI 2310	3
	29

Sophomore	Hours
CA 1347	3
FM 2335 or 2334	3
Life and Physical Sciences	6
COMM 1310	3
ENG Literature	3
HIST 1320	3
PHIL 1305 or 1320	3
POSI 2320	3
Social and Behavioral Sciences	3
	30

<b>Junior</b>	<b>Hours</b>
FCD 2351	3
FCD 3355	3
FCD 3394 or CI 3325	3
CA 3341	3
COMM 4310	3
NUTR 3362	3
ID 1321	3
ID 2329	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
CI 4332	3
	30
<b>Senior</b>	<b>Hours</b>
CA 4301	3
FCS 4343	3
FCS 4347	3
FCS 4681	6
NUTR 4367	3
NUTR 4167	1
AG 4311	3
AG 4343	3
CI 4370	3
RDG 3323	3
	31

Total Hours: 120

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Family and Child Development

### Minimum required: 120 semester hours General Requirements

- In addition to general education core curriculum and Family and Consumer Sciences core requirements, the Family and Child Development major is required to take specialized courses including infant and toddler development, child development, family life education, creative activities for children, and administration of programs for young children.
- As a condition for participation in a child development class that requires either observation or participation at the campus Child Development Center, students must undergo a criminal background check and provide verification of an annual TB test.
- As a condition for placement in an internship site, students must complete a criminal background check and meet any additional requirements set by the internship site.

- No minor is required; however, Family and Child Development majors may add a minor relevant to their career interests, such as, Social Work, Psychology, or Early Childhood Intervention.
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman</b>	<b>Hours</b>
FCD 1351	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1316 <sup>1</sup>	
MATH 1319	
Life and Physical Sciences	3
PHIL 1305 or 1320	3
POSI 2310	3
	28

<b>Sophomore</b>	<b>Hours</b>
FCD 2351	3
FCD 2353	3
Department elective	3
ENG Literature	3
HIST 1320	3
POSI 2320	3
Life and Physical Sciences	3
Social and Behavioral Sciences	3
Elective	6
	30

<b>Junior</b>	<b>Hours</b>
FCD 3351 or 3353	3
FCD 3355	3
FCD 3394	3
NUTR 3362	3
Select one of the following:	3
CA 1341	
CA 1347	
CA 3341	
FM 2335	
ID 2329	
Department Elective	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
SOWK 4315 or SPED 2360	3



Electives	6
	30
<b>Senior</b>	<b>Hours</b>
FCD 3359	3
FCD 4301	3
FCD 4351	3
FCD 4355	3
FCD 4352 or 4356	3
FCS 4303	3
Select one of the following:	3
FCD 2357	
FCD 3350	
FCD 3344	
FCD 3354	
FCD 3356	
FCD 4353	
FCS 4347	3
Electives	8
	32

Total Hours: 120

<sup>1</sup> MATH 1316 is not accepted as a prerequisite for courses in some minors.

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Family and Child Development (Teacher Certification in Human Development and Family Studies, Grades 8-12)

### Minimum required: 121 semester hours General Requirements

- In addition to general education core curriculum and departmental core requirements, the Family and Child Development major pursuing Teacher Certification in Human Development and Family Studies is required to take specialized courses including infant and toddler development, child development, family life education, creative activities for children, and administration of programs for young children.
- As a condition for participation in a child development class that requires either observation or participation at the campus Child Development Center, students must undergo a criminal background check and provide verification of an annual TB test.
- As a condition for placement in an internship site, students must complete a criminal background check and meet any additional requirements set by the internship site.
- Students participate in student teaching for pre-professional experience.
- No minor is required.
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree.

In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	Hours
FCD 1351	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
Life and Physical Sciences	3
PHIL 1305 or 1320	3
POSI 2310	3
	28

Sophomore	Hours
FCD 2351	3
FCD 2353	3
FCD 2357	3
CA 1341	3
ENG Literature	3
HIST 1320	3
POSI 2320	3
Life and Physical Sciences	3
Social and Behavioral Sciences	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
	30

Junior	Hours
CI 4332	3
FCD 3351	3
FCD 3353	3
FCD 3355	3
FCD 4391	3
CI 3325	3
CA 3341	3
FCS 4343	3
NUTR 3362	3
SOWK 4315	3
	30

Senior	Hours
AG 4311	3
AG 4343	3
CI 4370	3
FCD 4351	3
FCD 4352	3
FCD 4355	3
CA 4301	3

FCS 4347	3
FCS 4681	6
RDG 3323	3
	<b>33</b>

Total Hours: 121

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Fashion Merchandising

**Minimum required: 120 semester hours**

### General Requirements

1. A Minor in Business Administration is required for this degree. Courses for the minor in Business Administration are included in the following degree plan.
2. Majors are required to take specialized courses in Fashion Merchandising including culture and consumer behavior, textiles, textile product analysis, fashion buying principles, fashion merchandising, fashion history, fashion merchandising administration, fashion economics, and fashion promotional strategies.
3. Majors participate in an internship in a related area.
4. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
5. Majors must pass all required Fashion Merchandising courses with a "C" or higher.

Freshman	Hours
FM 1330	3
FM 1332	3
FM 2335	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
POSI 2310	3
	<b>28</b>

Sophomore	Hours
FM 2330	3
FM 2336	3
ECO 2301	3
ACC 2301	3
HIST 1320	3
Life and Physical Sciences	6
POSI 2320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	

TH 2313	
PHIL 1305 or 1320	3
	<b>30</b>

Junior	Hours
FM 3330	3
FM 3332	3
FM 3334	3
FM 3335 or 3336	3
Social and Behavioral Sciences	3
MC 3343 or 3367	3
ENG Literature	3
Department electives	9
Elective	2
	<b>32</b>

Senior	Hours
FM 4301	3
FM 4334	3
FM 4331	3
FM 4338	3
FM 4339	3
FCS 4347	3
Select four of the following (Business Minor):	12
BLAW 2361	
CIS 3317	
FIN 3325	
MGT 3303	
MKT 3343	
	<b>30</b>

Total Hours: 120

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Interior Design

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must maintain a Texas State GPA of 2.0 in order to graduate.
2. The Interior Design major is required to take specialized courses in interior design including history of furnishings and architecture, residential and commercial interior design, research and programming, professional practices, and portfolio design. Visual communication courses, such as drawing, rendering and CADD, are taken in the School of Art and Design and the Department of Engineering Technology.
3. It is strongly suggested that students consider transferring into the program prior to meeting all general education core curriculum requirements or course options may be limited. The completion of ID major course requirements alone requires a minimum of seven semesters due to strict sequencing, regardless of other credit hours accumulated.
4. Students participate in an internship in a related area. Students are required to have completed ENG 1310, ENG 1320, COMM 1310,

MATH 1315 or MATH 1319 in addition to the Interior Design course requirements prior to the internship.

- Majors must pass all required Interior Design, Art, and Technology classes with a grade of "C" or higher. Any student making a grade of "D" or lower in ID, ART, or CSM courses may not proceed to the next level course until a grade of "C" or higher is achieved.
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
ID 1320	3
ID 1321	3
ID 2321	3
ID 2322	3
ID 2329	3
ARTF 1302	3
ARTC 2305	3
ENG 1310	3
US 1100	1
MATH 1315 or 1319	3
	28

Sophomore	Hours
ID 2323 <sup>1</sup>	3
ID 2325	3
ID 3220	2
ID 3321	3
ID 3322	3
ID 3324	3
ID 3325	3
CSM 2313	3
Select one of the following electives:	3
AG 3306	
AG 4305	
ARTS 2311	
ARTS 2331	
ARTS 2341	
ARTS 2381	
FM 1332	
TH 2330	
ENG 1320	3
COMM 1310	3
	32

Junior	Hours
ID 3323	3
ID 3326	3
ID 4323	3
CSM 4313	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	

TH 2313	Hours
Select one of the following electives:	3
AG 3306	
AG 4305	
ARTS 2311	
ARTS 2331	
ARTS 2341	
ARTS 2381	
FM 1332	
TH 2330	
HIST 1310	3
HIST 1320	3
Life and Physical Sciences	6
	30

Senior	Hours
ID 4120	1
ID 4301	3
ID 4324	3
FCS 4347	3
Select one of the following:	2-3
MKT 3343	
MGT 3303	
MGT 3360	
CSM 4368	
Advanced Art Elective	
Advanced CSM Elective	
PHIL 1305 or 1320	3
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
ENG Literature	3
ARTH Advanced Elective	3
	30

Total Hours: 120

- <sup>1</sup> A portfolio review for all Interior Design majors is conducted by the Interior Design faculty immediately upon completion of all ID 2323 course work. The purpose of the review process is to ensure that the most qualified students, evidenced by adequate skill and knowledge levels, will advance in the program. Students must pass portfolio review to proceed to the studio sequence beginning with ID 3322.

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Nutrition and Foods

**Minimum required: 120 semester hours**  
**General Requirements**

- In addition to general education core requirements, majors take courses in biology, and specialized courses in food systems, food science, nutritional assessment, physiology and nutrition, wellness and fitness, life span nutrition, and food service management. Course

options include medical nutrition therapy, advanced food science, and nutrition and genetics.

2. Majors must maintain a Texas State and major GPA of 2.50 or higher in order to graduate.
3. Majors participate in an externship.
4. A minor is required, and those in biology, business administration, and chemistry are recommended.
5. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
NUTR 1362	3
NUTR 1162	1
BIO 1330 & BIO 1130	4
CHEM 1341 & CHEM 1141	4
CHEM 1342 & CHEM 1142	4
ENG 1310	3
ENG 1320	3
COMM 1310	3
US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
POSI 2310	3
	35

Sophomore	Hours
NUTR 2360	3
NUTR 2361	3
NUTR 2362	3
NUTR 2162	1
BIO 2430	4
BIO 2440	4
HIST 1320	3
PSY 1300 or SOCI 1310	3
PHIL 1305 or 1320	3
POSI 2320	3
	30

Junior	Hours
NUTR 3367	3
NUTR 3363	3
CA 3391 or NUTR 4363	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Minor	15
ENG Literature	3
	30

Senior	Hours
NUTR 4301	3
NUTR 4365	3
FCS 4303	3
FCS 4347 or NUTR 4366	3
Select 9 hours from the following:	9
NUTR 3366	
NUTR 3166	
NUTR 4304	
NUTR 4360	
NUTR 4367	
NUTR 4167	
NUTR 4362	
Minor	3
Elective	1
	25

Total Hours: 120

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Nutrition and Foods (Dietetics Track)

### Minimum required: 122 semester hours General Requirements

1. In addition to general education core requirements, majors take courses in agriculture, biology, and chemistry, and specialized courses in food science, food systems, food service, management, nutritional assessment, physiology and nutrition, wellness and fitness, lifespan nutrition, biochemical nutrition, functional foods and nutraceuticals, medical nutrition therapy, and nutrition and genetics.
2. Majors must maintain a Texas State and major GPA of 2.75 or higher in order to graduate.
3. Majors participate in an internship.
4. No minor is required.
5. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	Hours
NUTR 1362	3
NUTR 1162	1
CHEM 1341	3
CHEM 1141	1
CHEM 1342	3
CHEM 1142	1
BIO 1330	3
BIO 1130	1
ENG 1310	3
ENG 1320	3
COMM 1310	3

US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
POSI 2310	3
	35
<b>Sophomore</b>	<b>Hours</b>
NUTR 2360	3
NUTR 2361	3
NUTR 2362	3
NUTR 2162	1
BIO 2430	4
BIO 2440	4
HIST 1320	3
PSY 1300 or SOCI 1310	3
PHIL 1305 or 1320	3
POSI 2320	3
	30
<b>Junior</b>	<b>Hours</b>
NUTR 3367	3
NUTR 3363	3
NUTR 4365	3
NUTR 4367	3
NUTR 4167	1
CHEM 2330	3
CHEM 2130	1
CHEM 2350	3
CHEM 2150	1
ENG Literature	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
ACC 2301	3
	30
<b>Senior</b>	<b>Hours</b>
NUTR 4301	3
NUTR 4304	3
NUTR 4360	3
NUTR 4361	3
NUTR 4362	3
NUTR 4363	3
NUTR 4366	3
FCS 4303	3
AG 3319	3
	27

Total Hours: 122

## Bachelor of Science in Family and Consumer Sciences (B.S.F.C.S.) Major in Nutrition and Foods (Teacher Certification in Hospitality, Nutrition, and Food Sciences, Grades 8-12)

**Minimum required: 129 semester hours**

### General Requirements

1. In addition to general education core requirements, majors take courses in biology and specialized courses in food systems, food science, nutritional assessment, physiology and nutrition, wellness and fitness, lifespan nutrition, food service management and hospitality.
2. Students participate in student teaching for pre-professional experience and an internship.
3. No minor is required.
4. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	Hours
NUTR 1362	3
NUTR 1162	1
BIO 1330 & BIO 1130	4
CHEM 1341 & CHEM 1141	4
CHEM 1342 & CHEM 1142	4
ENG 1310	3
ENG 1320	3
COMM 1310	3
US 1100	1
HIST 1310	3
MATH 1315 or 1319	3
POSI 2310	3

Sophomore	Hours
NUTR 2360	3
NUTR 2361	3
NUTR 2362	3
NUTR 2162	1
BIO 2430	4
BIO 2440	4
HIST 1320	3
PSY 1300 or SOCI 1310	3
ENG Literature	3
PHIL 1305 or 1320	3



POSI 2320	3
	33
<b>Junior</b>	<b>Hours</b>
NUTR 3367	3
NUTR 4167	1
NUTR 4367	3
NUTR 3363 or 4365	3
NUTR 4350	3
CA 1341	3
CA 1347	3
FCD 3394 or CI 3325	3
CI 4332	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 4310	3
	31
<b>Senior</b>	<b>Hours</b>
CA 4301	3
FCS 4681	6
FCS 4347 or NUTR 4366	3
FCS 4343	3
FM 4338	3
AG 4343	3
CI 4370	3
RDG 3323	3
AG 4311	3
	30

Total Hours: 129

## Minor in Consumer Affairs

A minor in Consumer Affairs requires 18 hours, which includes:

CA 1341	Consumers in the Marketplace	3
CA 3341	Family Finance	3
CA 3342	Consumer Law	3
CA 4341	Counseling for Family Practitioners	3
CA 4342	Financial Counseling Practicum	3
Electives from courses within the School of Family and Consumer Sciences		3
Total Hours		18

## Minor in Early Childhood Intervention

A minor in Early Childhood Intervention requires 18 hours, which includes:

FCD 2357	Infants and Toddlers	3
FCD 3344	Introduction to Infant and Early Childhood Mental Health	3
FCD 3356	Introduction to Early Childhood Intervention	3
FCD 4301	Internship in Family and Child Development	3

Select 6 hours of the following:	6
CDIS 1331	Introduction to Communication Disorders
FCD 2351	Child Development
FCD 2353	Principles of Guidance
FCD 3351	Creative Experiences for Children
FCD 4351	Cultural Diversity of Families
FCD 4355	Family Interaction
HIM 2360	Medical Terminology
PSY 3300	Lifespan Development
SOCI 3327	Multicultural Relations
SOCI 3337	The Family
SOWK 1350	Introduction to Social Work
SOWK 2375	Social Services in the Community
SOWK 4315	Child Welfare
SPED 2360	Survey of Exceptionalities

Total Hours 18

## Minor in Family and Child Development

A minor in Family and Child Development requires 18 hours, which includes:

FCD 1351	Lifespan Development	3
or FCD 2351	Child Development	
FCD 3355	Family Relationships	3
Select 12 additional hours of the following FCD courses (9 of which must be advanced):		12
FCD 2353	Principles of Guidance	
FCD 2357	Infants and Toddlers	
FCD 3344	Introduction to Infant and Early Childhood Mental Health	
FCD 3345	Methods in Child Life	
FCD 3350	Sexuality Across the Lifespan	
FCD 3351	Creative Experiences for Children	
FCD 3353	Family Life Education	
FCD 3354	Creative Experiences: STEM	
FCD 3356	Introduction to Early Childhood Intervention	
FCD 3358	Practicum in Child Development	
FCD 3359	Family Diversity	
FCD 3394	Adolescent Development	
FCD 4301	Internship in Family and Child Development	
FCD 4351	Cultural Diversity of Families	
FCD 4352	Administration of Programs for Children	
FCD 4353	Hospitalized Child: Introduction to Child Life	
FCD 4356	Administration of Human Service Organizations	
FCD 4357	Comparative Studies in Child Development	
FCS 4303	Research Procedures in Family & Consumer Sciences	

Total Hours 18

## Minor in Family and Consumer Sciences

A minor in Family and Consumer Sciences requires 18 hours, which includes:

CA 1341	Consumers in the Marketplace	3
or CA 3341	Family Finance	
FCD 3355	Family Relationships	3
or FCD 3359	Family Diversity	
Select one of the following:		3
FM 1332	Textiles	
FM 2335	Gender, Appearance, and Society	
FM 4302A	Special Events Planning	
NUTR 3362	Nutrition and Health	3
ID 3329	Housing, Interiors, and Furnishings	3
Electives from the School of Family and Consumer Sciences		3
Total Hours		18

## Minor in Fashion Merchandising

A minor in Fashion Merchandising requires 18 hours, which includes:

FM 1330	Introduction to Fashion Merchandising	3
Select 15 hours from the following:		15
FM 1332	Textiles	
FM 2330	Fashion Promotional Strategies I	
FM 2336	Introduction to Merchandising Technology	
FM 3330	Fashion Buying Principles I	
FM 3332	Fashion Promotional Strategies II	
FM 3334	Fashion Merchandising Administration	
FM 4320	Fashion Merchandising in Domestic Markets	
FM 4331	Fashion Buying Principles II	
FM 4337	Fashion Merchandising	
FM 4338	Enterprise Development	
FM 4339	Fashion Economics	
FM 4340	Fashion Merchandising in International Markets	
Total Hours		18

## Department of Military Science

Army Reserve Officer Training Corps  
Adamson Building Room 104  
T: 512.245.3232 F: 512.245.3264

The Army Reserve Officer Training Corps (AROTC) Program at Texas State is designed to develop the professional skills vital to Army officers. The purpose of the program is to educate, develop, and inspire qualified students for a commission in the U.S. Army, U.S. Army Reserve, or Army National Guard.

The freshman and sophomore years of AROTC are called the Basic Course, and the junior and senior years are called the Advanced Course. Entry into the Basic Course requires no formal application; however, an interview is advisable because the student may be eligible for advanced placement. Registration is accomplished at the same time and in the same manner as for other college courses. Enrollment in the Basic

Course does not confer any military status or commitment upon the cadet. Successful completion of, or constructive credit for, the Basic Course is necessary before progressing to the Advanced Course.

Students entering the Advanced Course should have two academic years remaining at Texas State. Coordination should be made with the Professor of Military Science well in advance of anticipated enrollment in order to allow adequate time for application processing. A student may meet some prerequisites as a result of prior military training, ROTC training with any service, or successful completion of the AROTC Cadet Initial Entry Training. An interview is advisable in order to determine if a student meets any of the above prerequisites.

Students in the Advanced Course attend a Cadet Leader Course during the summer at Fort Knox, Kentucky between their junior and senior years. The purpose of this course is to train cadets to Army standards, to develop their leadership skills, and to evaluate their officer potential while giving them practical field experience in a military environment.

Textbooks and materials for military science classes are furnished without cost to the student.

Some cadets are eligible to participate in the Simultaneous Membership Program, which allows them to serve in the National Guard or Army Reserve concurrently with AROTC. The Department of Military Science should be consulted for additional information regarding this program.

Army scholarships are available on a competitive basis to cadets enrolled in AROTC. These scholarships pay 100% of tuition and fees or room and board, plus a \$600 allowance per semester for books and necessary supplies. All scholarship cadets also receive the following tax-free stipend per month: freshmen, \$300.00; sophomores, \$350.00; juniors, \$450.00; and seniors, \$500.00. Eligible non-scholarship cadets who sign an AROTC contract may begin receiving the stipend during their sophomore year.

Opportunities to attend Airborne, Air Assault, and other service schools are available to eligible cadets on a competitive basis.

Pursuant to Texas Education Code 51.302, up to three semester hours of credit in an upper-level ROTC course may be applied to the general education core curriculum American History Component (HIST 1310 or HIST 1320) and up to three hours to the general education core curriculum Government/Political Science Component (POSI 2320 only).

All AROTC cadets are required to attend a weekly 90-minute leadership laboratory. This gives them an opportunity to practice basic military skills and the art of leadership.

### Minor

- Military Science

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Military Science (MS)

### MS 1000. Leadership Laboratory.

This course concentrates on practical leadership training. Must be taken concurrently with all other MS courses. Repeatable for credit with different emphasis

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### MS 1211. Foundations of Officership.

This course introduces the Army profession and the role of the commissioned officer. It focuses on leadership, ethics and military customs as well as practical skills like physical fitness and stress management. Students must enroll in MS 1000 concurrently

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 1212. Basic Leadership.

This course is designed to broaden the introduction to the Army and the skills needed to be a successful Army officer. It focuses on leadership, communication and problem solving as well as nutrition and personal development. Students must enroll in MS 1000 concurrently

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 2211. Individual Leadership Studies.

This course is designed to develop the student's self-confidence, leadership skills and problem solving abilities. It focuses on critical thinking, communication and conflict resolution skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 2212. Leadership and Teamwork.

This course focuses on self-development guided by group processes. Experiential learning activities are designed to challenge current beliefs, knowledge and skills. This course also provides equivalent preparation for the ROTC Advanced Course and the Leaders Training Course

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 2313. American Military Studies and Battle Analysis.

This course is designed to study Military History as it applies to the principles of war and current military doctrine. Students will analyze historical battles and lessons learned and apply them to the modern battlefield. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### MS 3311. Leadership and Problem Solving I.

This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 3312. Leadership and Problem Solving II.

This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MS 4311. Leadership and Management.

This course is designed to help cadets make informed career decisions and it continues their education in Army operation, training management, communications and leadership. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### MS 4312. Officership.

This course focuses on completing the transition from cadet to lieutenant. It includes a basic foundation of military law, skills and information on leadership and military science, application and demonstration of knowledge and mastery of military skills reasoning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### MS 4313. Independent Study in Military Science.

This course will be designed to meet the needs of the individual student. It will be a directed and closely monitored program targeted at the students' weaknesses/interests. The course will primarily deal with topics pertinent to the military profession; such areas as leadership, management, ethics, law and their application. Course will require week/bi-weekly progress review with instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Minor in Military Science

A minor in Military Science requires 23 hours, which includes:

MS 1211	Foundations of Officership	2
MS 1212	Basic Leadership	2
MS 2211	Individual Leadership Studies	2
MS 2212	Leadership and Teamwork <sup>1</sup>	2
MS 3311	Leadership and Problem Solving I <sup>2</sup>	3
MS 3312	Leadership and Problem Solving II <sup>2</sup>	3
MS 4311	Leadership and Management <sup>2</sup>	3
MS 4312	Officership (advanced course) <sup>2,3</sup>	3
One course in Military History		3
Total Hours		23

<sup>1</sup> Or placement credit given for completing basic training or the Leader's Training Course.

<sup>2</sup> To be eligible to take these courses, students must sign a contract to enter the U.S. Army, Army Reserve, or Army National Guard. Students must be medically, morally, and physically qualified and receive permission from the department chair.

<sup>3</sup> Requires that cadets qualify for an U.S. Army officer commission by submitting to and passing a thorough background investigation to obtain a Secret Security clearance.

## Department of Occupational, Workforce, and Leadership Studies

Pedernales Building  
T: 512.245.2115 F: 512.245.3047  
<http://www.owls.txstate.edu>

The B.A.A.S. is a program designed to allow students to earn a degree with a major in an individualized academic area. In addition, it allows students to assist in the choice of courses that would complement their career goals. The following are unique characteristics of the B.A.A.S.:

- The B.A.A.S. is an individualized, interdisciplinary degree with the option for prior learning assessment (PLA) and is considered a fast track to degree completion.
- Prior learning assessment (PLA) is available to document college-level learning for work experience, noncollegiate training, industry certifications, and non-sponsored learning for academic credit through a portfolio development process.
- The B.A.A.S. includes multiple options for obtaining college credit including testing by CLEP or DSST, correspondence studies, and extension courses.
- Courses are delivered at convenient times and locations as well as online.
- The professional development and practicum modules of the degree plan are individualized based on the students' career goals.
- Certificates, such as Certified Public Manager (CPM), may be included in the B.A.A.S. degree plan.
- Technical Associates' degrees and coursework may be included in the B.A.A.S. degree plan.
- Military coursework may be included in the B.A.A.S. degree plan

### Technological Focus

Students holding a two-year technical associates degree or work experience in a technical area may wish to pursue the B.A.A.S. with a technological focus. These students may enroll in upper- and lower-division technological coursework in the Occupational Emphasis module and also additional upper-division technological courses in the Professional Development module of the degree plan. In addition, those students with technical work experience may apply for extra institutional credits, as do other students in the B.A.A.S. degree plans.

### Bachelor of Applied Arts and Sciences (B.A.A.S.)

- Major in Applied Arts and Sciences

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: CTE (p. 132),  
OCED (p. 133)**

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## Courses in Career and Technical Education (CTE)

### CTE 3304. Human Relations for Career and Technical Education Teachers.

This course emphasizes the combination of psychological and sociological factors that influence relationships of CTE teachers in the pursuit of professional duties. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### CTE 3307. Selection, Placement, and Follow-up in Career and Technical Education.

This course provides an overview of the practices of occupational selection, placement of students in suitable employment and cooperative sites, and coordinating the relationship between school and workplace site  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### CTE 3308. Problems in Cooperative Training.

The course highlights the organization, presentation, and selection of content material necessary in part-time work-based learning programs. The need for community, workplace/industry, family, school, and student partnerships in curricular assessment is emphasized  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### CTE 3313A. Special Needs Students in CTE.

This course involves in-depth studies of characteristics, principles of inclusion, development and implementation of individualized programs of instruction and collaboration with school personnel for effective education of special needs students, including special education, limited-language proficiency, and gifted and talented students  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

### CTE 3313C. Entrepreneurship.

This course involves study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. It includes strategies for teaching entrepreneurship in CTE  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

### CTE 3313D. Leadership and Professional Development.

This course is designed to be applicable to all CTE areas in public, private, and corporate education. The course addresses professional growth, leadership styles, skills, and teaching leadership. Trends, policies, and procedures relating to leadership in career and technical areas are highlighted  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 3313E. Introduction to Interdisciplinary Studies for the Bachelor of Applied Arts and Sciences Degree.**

Introduction to an individualized degree and interdisciplinary studies, reflection on past and future career directions, critical thinking, professional communication, role of information technology in the workplace, leadership development concepts, writing across disciplines, planning for nontraditional options to earn college credit, including prior learning assessment (PLA), and proposing capstone experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 3320. Effective Methods of Teaching and Training.**

This is an introductory/fundamental course for instructors in trade and industrial education seeking certification and technical trainers who are not seeking certification. It is designed to prepare these individuals to apply effective teaching principles and techniques, to prepare lesson plans, and manage classrooms. Practice teaching will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3321. Work-based Learning in Career and Technical Education.**

This course is intended for teacher coordinators of work-based program in trade and industrial cooperative education. There is an emphasis on selection of occupations and appropriate training stations, student recruitment, instruction coordination in on-the-job educational experiences, state and local report preparation and required record keeping systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3323. Technology Applications.**

This course covers the use and integration of computers in the classroom or office. Topics include history of computers, use of word processor, spreadsheet, and presentation software; overview of common computer programs; history and use of the Internet, and web-page creation. T&I students will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3340. Occupational Skills for the 21st Century.**

This course allows students to explore past and present occupational trends, new and emerging occupations and the 21st century occupational skills necessary for success. Students will explore transferability of occupational skills and how these skills are applied and packaged for career transitions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3380. Management of Business Office Education Training Programs.**

This course is for instructors in educational and industry settings and involves the identifications of federal, state, and local policies, the coordination of work-based learning programs, the benefits of student and professional associations, public relations. Students will make visits to local classroom or training facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 3381. Instructional Strategies in Business Office Education Training Programs.**

This course provides an overview of identifying curriculum, individual learning styles, instructional strategies, providing support for students with special needs, non-gender biased instruction, appreciation of diversity, and the use of technology and assessment in business office educational programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 4302. Coordination Techniques.**

This course presents an overview of the cooperative program in marketing and distributive education (MDE), the establishments of MDE programs, the guidance, selection and placement of students, adjustment of work for individual needs, setting student objectives, evaluation, labor laws, and public relations relevant for MDE programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 4304. Organization and Management of Marketing Education Programs.**

This course provides instruction on the organization and administrative structure of marketing organization in the United States. Additionally, the use of objectives, program improvement techniques, appropriate teacher selection techniques, and evaluative criteria are emphasized in relation to marketing and distributive education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 4310. Independent Study in Career and Technical Education.**

This course is an independent study of various subjects in CTE. Work is done on an independent basis under the direction of the faculty member. Repeatable for credit with different emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Courses in Occupational Education (OCED)

Students desiring to pursue the Bachelor of Applied Arts and Sciences must take OCED 4350 as their initial entry course. All students must have an overall transfer GPA of 2.25 and if the students have Texas State University coursework, a Texas State GPA of 2.25 is required.

**OCED 3310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**OCED 4111. Independent Study in Occupational Education.**

This is an independent study course that allows research on topics in occupational education related to a student’s interests. Work may include individual research, critical reviews or integration of existing bodies of knowledge. Course may be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**OCED 4350. Adult Development and Career Planning.**

This course introduces students to human development, learning theory, transition theory, interdisciplinary studies, career planning and assessment, and goal setting relevant to developing a professional growth plan. Prerequisite: 2.0 Overall GPA. Corequisite: CTE 3313E. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**OCED 4360. Bachelor of Applied Arts and Sciences Capstone Part 1.**

This is the first part of a two-part capstone devoted to the development of the student’s supervised capstone project. Proposal development, review of literature, creation of timelines, and task analysis are stressed. Following instructor approval, work on the capstone project begins in this course. Prerequisites: CTE 3313E and OCED 4350. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 13 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**OCED 4361. Bachelor of Applied Arts and Sciences Capstone Part 2.**

This is the second part of a two-part capstone devoted to the development of the student’s supervised capstone project. Application of knowledge, abilities, and skills acquired in the degree program is stressed. It requires extensive reports and documentation. Prerequisite: OCED 4360. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 13 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

# Bachelor of Applied Arts and Sciences (B.A.A.S.) Major in Applied Arts and Sciences

## Minimum required: 120 semester hours General Requirement

1. The Bachelor of Applied Arts and Sciences (B.A.A.S.) requires an individualized plan of study based on each student’s past learning experiences and future career goals.

**General Education Core Curriculum**

COMM 1310	Fundamentals of Human Communication	3
ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
PHIL 1305	Philosophy and Critical Thinking	3
or PHIL 1320	Ethics and Society	
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3

English Literature	3
Life and Physical Sciences	6
Mathematics	3
Social and Behavioral Sciences	3
Select one of the following:	3
ART 2313	Introduction to Fine Arts
DAN 2313	Introduction to Fine Arts
MU 2313	Introduction to Fine Arts
TH 2313	Introduction to Fine Arts

**Occupational Emphasis Module <sup>1</sup>**

Select 45 credits to satisfy this module from experiential learning (work/life experience, non-collegiate sponsored instruction, credit by examination), or transfer work from other accredited institutions of higher learning. 45

OCED 4350	Adult Development and Career Planning	3
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**Professional Development Module**

This module of 21 credits is individualized to students’ educational needs. <sup>2</sup> 21

**BAAS Capstone <sup>3</sup>**

OCED 4360	Bachelor of Applied Arts and Sciences Capstone Part 1	3
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OCED 4361	Bachelor of Applied Arts and Sciences Capstone Part 2	3
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**Elective Module**

Select enough elective hours to complete the 120 hour degree chosen with the advice of the student’s degree advisor. 3-9

**Foreign Language**

Students who have not had two years of the same foreign language in high school or who do not have one year of the same foreign language from an accredited college must take the two courses of the same foreign language, which may include American Sign Language. 0-10

Total Hours	120
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<sup>1</sup> This module may be satisfied through a number of options including traditional course work from Texas State and transfer credit from accredited institutions of higher learning plus limited numbers of hours from nontraditional methods including correspondence, extension, and forms of testing including CLEPs.

<sup>2</sup> Students will choose courses with the assistance of the degree advisor from at least three academic departments or schools. This module of 21 hours constitutes the major for GPA calculation purposes.

<sup>3</sup> This is a required independent activity completed during the student’s last semester.

## School of Social Work

Health Professions Building Room 150  
 T: 512.245.2592 F: 512.245.8097  
[www.socialwork.txstate.edu](http://www.socialwork.txstate.edu) (<http://www.socialwork.txstate.edu>)

The Bachelor of Social Work with a major in Social Work, which is fully accredited by the Council on Social Work Education, prepares students to engage in entry-level social work practice, to apply for state social work licensure, and to pursue graduate social work studies. Social Work students must maintain high scholastic standards. They must also

develop the capacity to work with people from all walks of life and be sensitive toward all people and the many problems they face.

## Admission Process

The Social Work degree requires 54 hours in Social Work and 9 hours in supportive Social Sciences, and builds on liberal arts and the general education core curriculum. The Social Work curriculum is based on and interwoven with the liberal arts/general education core curriculum consisting of 54 semester credit hours. The Social Work major does not require a minor. Students progress in three phases of the Social Work major, without regard to disability. A social worker must be emotionally and mentally stable, must have strong communication skills, must have solid interpersonal relationship-building skills, and must conform to professional ethics. The School of Social Work faculty evaluate whether students meet these criteria and may advise a student at any point to continue in the B.S.W. major or consider another major.

### Phase I: (Pre-Social Work Major)

Any student may declare a pre-social work major and may enroll in SOWK 1350, SOWK 2375, as well as SOWK elective courses. Social work pre-majors should complete most of their general education core curriculum and liberal arts courses before applying to Phase II of the Social Work major. They must complete at least 45 credit hours, including the following:

BIO 1320	Modern Biology I, Molecules, Cells, and Physiology <sup>1</sup>	3
BIO 1421	Modern Biology II, Organisms, Evolution, and Environment <sup>1</sup>	4
COMM 1310	Fundamentals of Human Communication	3
ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
Any course which meets the MATH Core criteria		3
PHIL 1305	Philosophy and Critical Thinking	3
or PHIL 1320	Ethics and Society	
SOWK 1350	Introduction to Social Work	3
SOWK 2375	Social Services in the Community	3
US 1100	University Seminar (if required)	1
Total Hours		35

<sup>1</sup> Biology is the only acceptable Life and Physical Science for admission to the B.S.W. major regardless of core curriculum requirements.

Applicants must have a minimum 2.50 overall GPA and a minimum 2.75 GPA in SOWK courses and supportive courses (Biostatistics, ENG 3303 or ENG 3304, and PSY 3322) to apply for Phase II. Students interested in Social Work must contact the College of Applied Arts Academic Advising Center for advisement.

### Phase II: (Social Work Major)

Students submit a formal application for admission to Phase II. Application materials are due to the School of Social Work office by 5:00 p.m. on the second Monday of November for spring admission to the major or the second Monday in April for fall admission to the major. An admission committee screens applicants, considering academic record and suitability for social work practice, and informs applicants in

writing of their decision to admit to full major status, conditionally admit to full major status, or deny admission to full major status. Students admitted to Phase II must attend a mandatory orientation to the major prior to beginning Phase II of the degree program. Information regarding the orientation will be provided in the written notification of admission to Phase II of the major. When students are admitted to Phase II, their formal academic major is converted from Pre-Social Work to Social Work.

Admission into Phase II does not guarantee permission to remain in the degree program. Social Work faculty will continuously assess a student's progress. To be retained, the student must maintain the required minimum Texas State GPA of 2.50. Students must also earn a minimum grade of "C" in each social work course and each supportive course. The School of Social Work outlines the academic progress and advancement to graduation in relation to retaking major sequence coursework in the student handbook. To remain in Phase II, students must also agree to adhere to the NASW Code of Ethics and must demonstrate emotional and mental stability, competent communication skills, interpersonal relationship skills, and high levels of self-awareness.

### Phase III: (Field Placement)

Students who have completed all required courses for the B.S.W., excluding SOWK 4645 and SOWK 4650 (Field Placement), and who have met all the requirements noted above may apply for field placement. Students apply for field placement with the School of Social Work's Field Office.

The School prefers that students take SOWK 4645 and SOWK 4650 during the same semester, which requires that the student limit his/her enrollment that semester to field placement, totaling 12 hours. Under exceptional circumstances, students may request permission from the Field Coordinator to take SOWK 4645 and SOWK 4650 over two consecutive semesters (6 hours each semester).

To be eligible for graduation a student must complete all degree requirements and must have a minimum Texas State GPA of 2.50 with a GPA of 2.75 in social work and supportive courses. Students seeking either a dual degree or a second bachelors' degree in Social Work will need to complete all requirements for the B.S.W degree totaling 54 hours for the major, to include 12 hours in field internship, 14 hours in modern languages, 9 hours in supportive courses and the required biology curriculum. To be eligible for graduation a student must complete all degree requirements and must have a minimum Texas State GPA of 2.50 with a GPA of 2.75 in social work and supportive courses.

## Bachelor of Social Work (B.S.W.)

- Major in Social Work (p. 137)

## Minor

- Social Work

## Courses in Social Work (SOWK)

SOWK 1350 is a prerequisite to all other social work courses except SOWK 2375, SOWK 3339, SOWK 4315, SOWK 4318, SOWK 4320, and SOWK 4355.

**SOWK 1350. Introduction to Social Work.**

This introductory survey course includes the nature, function, and various types of social work practice, acquainting the student with the history, scope, and values of the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SOCW 2361

**SOWK 2320. Love and Relationships.**

This elective course explores the nature of attraction, friendship, love, and human sexuality, enabling students to enhance their own personal and professional relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 2375. Social Services in the Community.**

This undergraduate course introduces the organizations and policies involved in social services delivery. Students participate in 50 hours of work as supervised observers and volunteers in selected social service agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3305. Seminar in Human Behavior and Social Environment I.**

This undergraduate course provides an overview of human functioning in the environment by studying eco-systems and developmental frameworks. It builds knowledge and values for practice with task groups, organizations, and communities. Prerequisites: Official Social Work major; complete SOWK 3420 or instructor consent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 3312. Alcoholism and Chemical Dependence.**

This elective course focuses on commonly used and abused drugs as well as the dynamics and treatment of addiction and alcohol abuse. It emphasizes direct social work interventions aimed at addiction prevention and treatment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3332. Helping Troops Transition Back to their Families and Communities: The Invisible Wounds of War.**

The course examines topics at the individual, family, group, organizational, and community levels related to troops who are returning from current combat operations and their families. It reviews the needs, community resources, and policies in place for helping them and their families make this transition. Prerequisite: Upper division undergraduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3339. Selected Topics in Social Work.**

Students study relevant social work topics in depth. Topics, such as social work in prisons or in mental health facilities, are selected according to students' needs and professional trends. Repeatable for credit with different emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 3340. Social Work Research.**

This undergraduate course builds foundation scientific research skills in critical thinking, knowledge of program and practice evaluation, and a philosophy of generalist social work practice. Prerequisites: HP 3302 or HP 3325 or CJ 3347 or PSY 3301 or SOCI 3307; official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3350. Connecting Policy and Practice.**

This course describes contemporary American Social Welfare and illustrates social work professional practice within policy guidelines. It focuses on practice with involuntary clients in a variety of agency contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3420. Social Work Practice I.**

This undergraduate course studies generalist theory and application of social work practice with individuals, families, and groups, including introductory data collection, assessment, intervention planning, and evaluation. Prerequisites: Official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 3425. Social Work Practice II.**

This undergraduate course emphasizes generalist social work practice with task groups, organizations, and communities, examining data collection, assessment, intervention, planning, implementation, and evaluation. Students develop and implement a community-based project. Prerequisites: SOWK 3420; official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4305. Seminar in Human Behavior and Social Environment II.**

This undergraduate course integrates knowledge from social sciences and SOWK 3305, focusing on individuals, families, and small groups functioning in environments. It uses a bio-psychosocial perspective, expanding on eco-systems, developmental, and values frameworks. Prerequisites: Official Social Work major; and SOWK 3305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4310. Diversity and Social Justice in Social Work.**

This undergraduate course focuses on knowledge and skills necessary for effective, ethical, and just practice, exploring interpersonal and institutional dynamics of racism, sexism, heterosexism, homophobia, classism and other forms of oppression and their effects on providing social services to diverse populations. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOWK 4315. Child Welfare.**

This undergraduate elective course analyzes child welfare services available to abused and neglected children in their own homes, in substitute care, and through the community, emphasizing social work intervention with children and their families

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4318. Social Work and Health Care.**

This undergraduate elective course provides a generalist view of social work practice in mental health and public health, considering the social problems that affect health care, and ethical and effective intervention strategies and service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4320. Social Work with Older Adults.**

This undergraduate elective gives a comprehensive introduction to contemporary social problems, values, and issues affecting older adults, and effective and ethical intervention strategies and service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4355. Policy Practice.**

This course is an overview of social policy and legislation and the processes of influencing public policy. It links policy with a broad range of social work service areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4356. Professionalism in Social Work.**

This course builds skills in self-presentation, in taking responsibility for personal and professional growth, in learning professional behaviors in organizations, and in presenting court testimony. Prerequisite: SOWK 3425 official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4360. Directed Study in Social Work.**

This one-semester undergraduate course highlights individualized reading, independent study and projects, and guided instruction. It is offered to superior students by the professor's invitation and with the consent of the BSW Coordinator. This course may not be repeated for credit. Prerequisite: official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 4425. Social Work Practice III.**

This undergraduate course emphasizes interpersonal and communication skills necessary for effective, ethical generalist social work practice. Students translate theory into helping behaviors through practice and feedback to develop competent skills for beginning field placement. Prerequisites: SOWK 3425; official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4645. Beginning Field Practice in Social Work.**

Undergraduate students engage in generalist social work in agencies, supervised by licensed social workers and the field coordinator. Students work a minimum of 270 clock hours, attend seminars, and complete assignments. Prerequisites: Completion of all Phase II course requirements, and application to field coordinator

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**SOWK 4650. Advanced Field Practice in Social Work.**

This undergraduate course extends SOWK 4645. Students, supervised by licensed social workers and the field coordinator, apply advanced generalist techniques for a minimum of 270 clock hours, attending seminars, and completing assignments. Prerequisites: Completion of all Phase II course requirements, and application to field coordinator

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

## Bachelor of Social Work (B.S.W.) Major in Social Work

**Minimum required: 121 semester hours**

Freshman	Hours
COMM 1310 <sup>1</sup>	3
ENG 1310 <sup>1</sup>	3
ENG 1320 <sup>1</sup>	3
US 1100	1
HIST 1310 <sup>1</sup>	3
MATH 1315 or 1319 <sup>1</sup>	3
PHIL 1305 or 1320 <sup>1</sup>	3
POSI 2310	3
PSY 1300	3
SOWK 1350 <sup>1</sup>	3
	28

Sophomore	Hours
BIO 1320 <sup>1</sup>	3
BIO 1421 <sup>1</sup>	4
ENG Literature	3
HP 3302	3
HIST 1320 <sup>1</sup>	3
Modern Language 1410	4
POSI 2320	3
SOWK 2375 <sup>1,2</sup>	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
SOWK elective	3
	32

Junior	Hours
Modern Language 1420, 2310	7
SOWK 3305	3
SOWK 3340	3
SOWK 3420	4
SOWK 3425	4
SOWK 4310	3
SOWK 4355	3
PSY 3322	3
ENG 3303 or 3304	3



Senior	Hours
Modern Language 2320	3
SOWK elective	3
SOWK 4305	3
SOWK 4356	3
SOWK 4425	4
SOWK 4645	6
SOWK 4650	6
	28

Total Hours: 121

<sup>1</sup> Required prior to application for Social Work major.

<sup>2</sup> Requires an additional 50 hours volunteering.

## Minor in Social Work

The Social Work minor makes students aware of our society's problems, conditions, and value systems, while enhancing their growth in their chosen major fields. The minor does not prepare students for professional social work practice nor for state social work licensure.

A minor in Social Work requires 18 semester hours, including:

SOWK 1350	Introduction to Social Work	3
SOWK 2375	Social Services in the Community	3
SOWK 4355	Policy Practice	3
Select 9 semester hours of the following SOWK electives:		9
SOWK 2320	Love and Relationships	
SOWK 3312	Alcoholism and Chemical Dependence	
SOWK 3339	Selected Topics in Social Work	
SOWK 4310	Diversity and Social Justice in Social Work	
SOWK 4315	Child Welfare	
SOWK 4318	Social Work and Health Care	
SOWK 4320	Social Work with Older Adults	
Total Hours		18

## Emmett and Miriam McCoy College of Business Administration

### Dean

Denise T. Smart, Ph.D.  
McCoy Hall Room 530  
T: 512.245.2311 F: 512.245.8375  
<http://www.mccoy.txstate.edu/>

### Associate Dean

William T. Chittenden, Ph.D.

### Associate Dean

Mayur R. Mehta, Ph.D.

### Assistant Dean

Kent Hamilton

### Department Chairs

Accounting—Ann L. Watkins, Ph.D.  
Computer Information Systems and Quantitative Methods—Ricki G. Ingalls, Ph.D.  
Finance and Economics—R. Todd Jewell, Ph.D.  
Management—Paula L. Rechner, Ph.D.

Marketing—Raymond P. Fisk, Ph.D.

Named on February 27, 2004 in honor of Mr. and Mrs. Emmett McCoy, the Emmett and Miriam McCoy College of Business Administration provides broad-based undergraduate and masters-level educational programs that produce graduates with the values, knowledge, and skills to be successful in a diverse, globally-competitive environment.

## Mission

The McCoy College of Business Administration fosters an engaged learning community that prepares a diverse student population for successful business careers as responsible global citizens. The College complements these efforts with research that adds to knowledge, provides solutions to business challenges, and contributes to pedagogical advances.

## Vision

The McCoy College of Business Administration strives to be a leader in experiential business education and business relevant, socially significant research.

## Values

Committed to supporting the mission of Texas State University as a Hispanic Serving Institution and designated emerging research institution for the state of Texas, we embrace:

- A unique combination of experiential learning, excellent faculty instruction, and a student-centered culture.
- Responsiveness, accountability, and on-going contributions through research and service to Texas and beyond.
- Excellence in all endeavors through self-study, innovation, and continuous improvement.
- Integrity and adherence to professional and ethical standards.
- Respect for individuals and a diverse culture that promotes a globally engaged community of students, staff, and faculty.
- Student engagement and development through active involvement in student organizations.
- Life-long learning and professional development of students, staff, and faculty.

## Background

Established in 1958, McCoy College offers the Bachelor of Business Administration (B.B.A.) degree with majors in accounting, computer information systems, economics, finance, management, and marketing. The management major offers a teacher certification option. Computer Information Systems offers a certificate program. Additionally, the College cooperates with the College of Liberal Arts in offering the Bachelor of Arts (B.A.) degree with a major in economics. The B.B.A. degree does not require a minor. Non-business majors may choose business administration as their minor.

The learning environment of McCoy College places primary importance on teaching excellence and intellectual contributions complemented by service. This environment prepares students for careers in both the private and public sectors. The curriculum addresses the economic, legal, political, social, technological, and demographically diverse environment in which modern business is conducted. This environment emphasizes comprehensive learning that combines general education and professional studies in business. The core requirements cover the main functional areas of business, and specialized study in one of six



traditional business majors provides knowledge upon which to build a career.

McCoy College, accredited by AACSB-International, The Association to Advance Collegiate Schools of Business, serves over 4,700 undergraduate and graduate business students and has five academic departments: Accounting, Computer Information Systems and Quantitative Methods, Finance and Economics, Management, and Marketing.

McCoy College is entitled by its designation as an AACSB-International accredited school to have Beta Gamma Sigma as its honorary business society. The university chapter has been in existence since 1997. In the College, the top 10 percent of undergraduate business students in their respective classes are eligible to join the society as early as the last semester of their second year of study. Graduate students ranked in the top 20% of their class may join the society after completing 40% of their respective program.

## Academic Advising Center

McCoy Hall Room 115  
T: 512.245.1993 F: 512.245.1996  
[www.advising.mccoy.txstate.edu](http://www.advising.mccoy.txstate.edu)

The McCoy College of Business Administration Academic Advising Center is an accessible, student-centered support service that encourages students to develop educational goals and identify strategies for success, provides official and accurate academic information, and guides students to the successful completion of an undergraduate degree. The Advising Center also provides opportunities for student engagement through the College's comprehensive student development program, the McCoy Experience. The services available for students include information sheets for schedule-building and degree requirements, an on-call advisor to address frequently asked questions, one-on-one advising sessions by appointment, information on student professional development opportunities in the College, and the certification of undergraduate graduation applicants. For a complete description of advising services and student responsibilities refer to the McCoy College Academic Advising Center Syllabus which is available for download at <http://advising.mccoy.txstate.edu/resources/syllabus.html>. Students are required to show their Texas State ID to speak with an advisor about specific academic information.

## Admission Policy

Admission to the College is competitive, and a student must be admitted to the College to pursue a B.B.A. degree. Consideration for admission to McCoy College undergraduate programs is based on specific admission criteria and is conducted as a rolling admission process. For current Texas State students, applications are available online at <http://advising.mccoy.txstate.edu/apply>. For students not yet admitted to the University, applications are available online at [www.applytexas.org](http://www.applytexas.org) (<http://www.applytexas.org>). Students should list a business major as their first major choice.

Priority dates are March 1 for summer/fall semester and October 15 for the spring semester. Applications received after the priority date will be considered for admission on a space-available basis. Students not yet admitted to Texas State must meet Texas State admission deadlines. Students attending Texas State who are currently on academic probation are not eligible for admission to McCoy College.

## Freshmen and Students with fewer than 30 Semester Hours

Students are automatically admitted if their SAT score is 1200 (Critical Reasoning + Math) or greater, if their ACT score is 27 or greater, or if the student graduated in the top 25% of their high school class. All other applicants will be considered for the remaining openings through a review process. The competitive review process is based on a student's high school academic record and (SAT or ACT score, or a combination of the two). Students who are admitted to the University but denied admission to a business degree program will be considered for admission to their second choice major or as an undeclared major.

## Students with 30 or more Semester Hours

Students who have not been admitted to McCoy College and have completed at least 30 semester hours either at Texas State or another college or university including ENG 1310, ENG 1320, and MATH 1329 will be considered for admission based upon a competitive index using the grades from ENG 1310, ENG 1320, MATH 1329, and the overall GPA from all colleges and universities attended. Students will be automatically admitted if they have a cumulative GPA of 3.0 or higher and have completed ENG 1310, ENG 1320 and MATH 1329.

## Restricted Status

Any business student whose Texas State GPA drops below a 2.0 is placed on probation by Texas State and on restricted status by McCoy College. Business majors on restricted status must increase their Texas State GPA to at least 2.0 in the subsequent semester or their admission to the College will be voided. Students are required to meet with a representative of the McCoy College Academic Advising Center to remove probation holds; otherwise, the hold will prevent registration or schedule changes. A student whose admission is voided may regain admission to the College by going through the application process and competing with other applicants for openings. Business students with a Texas State GPA below a 2.0 are also subject to the University academic probation and suspension policies.

## General Requirements for the B.B.A. Degree

All students seeking the B.B.A. must complete

- The general education core curriculum prescribed by Texas State including the following:
 

COMM 1310	Fundamentals of Human Communication	3
ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
MATH 1329	Mathematics for Business and Economics II	3
PHIL 1320	Ethics and Society	3
- A common core of business courses outlined by McCoy College,
- A combination of courses in the major program area specified by the appropriate academic department and restricted upper-division business electives to complement the major, and
- Free electives to achieve a minimum total of 120 semester hours. To ensure compliance with the course requirements for a B.B.A. degree, business students should follow the general sequence of courses specified for the business curriculum in this section of the catalog. Also, students who did not complete satisfactorily at least two years of the same foreign language in high school must complete two semesters (6-8 hours) of a single foreign language in college.

## Enrollment in Upper-Division Business Courses

Upper-division McCoy College courses (3000- and 4000-level) are restricted to business majors or to students who require the courses for their declared program of study. To be eligible to enroll in these courses, all students must satisfy stated course prerequisites, maintain an overall GPA of 2.00 or greater, and have completed at least 60 semester hours. Students should note that not all courses are taught each semester. If a specific course is needed, students should verify the prospective course offering with the department.

## Common Business Core

To provide a common body of knowledge in business, all students seeking the B.B.A. are required to complete the following courses or their equivalents:

ACC 2361	Introduction to Financial Accounting	3
ACC 2362	Introduction to Managerial Accounting	3
CIS 1323	Introduction to Microcomputer Applications	3
ECO 2314	Principles of Microeconomics	3
ECO 2315	Principles of Macroeconomics	3
BLAW 2361	Legal Environment of Business	3
QMST 2333	Business Statistics	3
MGT 3303	Management of Organizations	3
MKT 3343	Principles of Marketing	3
CIS 3380	Enterprise Information Technology and Business Intelligence	3
FIN 3312	Business Finance	3
MGT 3453	Business Communication and Professional Development <sup>1</sup>	4
MGT 4335	Strategic Management and Business Policy	3

<sup>1</sup> Students in the 2014 and subsequent catalog years cannot receive credit for MGT 3353.

## Transfer Credit

Business transfer students must meet residency requirements for all Texas State programs outlined in the academic policies section of this catalog. Additionally at least 50% of the semester hours in business required for the College's various degree programs must be completed in residence at Texas State.

Undergraduate transfer students who received elective credit rather than course-specific credit from the Texas State admissions office may appeal this designation to the McCoy College department in which the course is offered.

Community/junior college students who plan to transfer to McCoy College are advised to pursue the business curriculum outlined in this section. The appropriate course equivalency guide and/or transfer planning guide should be consulted to resolve questions of course transferability. Courses acceptable for transfer by Texas State will transfer at the level at which the courses were taken (i.e., acceptable courses from a community/junior college transfer as freshman or sophomore courses and cannot be used to satisfy junior/senior-level requirements). A maximum of 72 hours from an accredited community/junior college may be applied to a business degree.

## Writing Intensive Hour Requirement

Nine hours of designated "writing intensive" (WI) courses must be completed at Texas State to satisfy degree requirements.

## Grade-Point Average for Graduation

B.B.A. students must achieve the following minimum grade-point averages:

1. A Texas State GPA of 2.00
2. A Business GPA of 2.25 (includes common business core, major(s), and restrictive/advanced electives); and
3. A GPA of 2.0 in the minor(s).

B.B.A. Accounting students must achieve the following grade point averages:

1. A Texas State GPA of 2.00
2. A Business GPA of 2.25 (includes common business core, major(s), and restrictive/advanced electives)
3. A GPA of 2.0 in the minor(s); and
4. A Major GPA of 2.50

B.A. students must achieve the following minimum grade point averages:

1. A Texas State GPA of 2.00
2. A major(s) GPA of 2.25 (includes major courses and restricted/advanced electives); and
3. A GPA of 2.0 in the minor(s).

## Double Majors within Bachelor of Business Administration Programs

Students must fulfill the specified requirements for both majors in full and restricted/advanced electives may not double count.

## Minors

- Business Administration (p. 141)
- International Business (p. 141)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Business Administration (B A)

### B A 2310. Introduction to Business in a Global Environment.

The course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross border impacts of culture, politics, and law on trade, investment, marketing, management, and accounting and financial systems. Restricted to BBA students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### B A 4300. Independent Study in Global Business.

This study abroad course introduces students to the international business environment. Topics include cultural, political, social, and economic factors affecting international business, and the regulatory and ethical environment of global businesses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**B A 4312. International Business Internship.**

Integration of professional and academic experience through internship in an international business related activity with an external employer.

Prerequisites: International Business Minors only, junior or senior classification, enrollment subject to availability and approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**B A 4315. International Trade Operations.**

This course examines the basics of international trade operations, focusing on the procedures, documentation, and regulation pertaining to export and import operations from the perspectives of exporters, importers, and various intermediaries. Prerequisites: MGT 3375 and MKT 4310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Minor in Business Administration

An undergraduate major of your choice combined with a business administration minor can be beneficial. The minor requires the completion of 18 semester credit hours including:

Select one of the following:	3
ACC 2301 Accounting in Organizations and Society	
ACC 2361 Introduction to Financial Accounting & ACC 2362 and Introduction to Managerial Accounting	
Select one of the following:	3
ECO 2301 Principles of Economics	
ECO 2314 Principles of Microeconomics & ECO 2315 and Principles of Macroeconomics	
Select 12 hours from the following:	12
BLAW 2361 Legal Environment of Business	
CIS 3317 E-Business	
FIN 3325 Personal Financial Management	
MGT 3303 Management of Organizations	
MKT 3343 Principles of Marketing	
Total Hours	18

Students seeking a B.B.A. degree are not eligible to declare a business minor.

## Minor in International Business

Obtaining an International Business minor will give you an understanding of the economic and financial differences across countries. It can also provide a broad background in international management and marketing.

Only students seeking a B.B.A. degree are eligible to declare an international business minor.

The minor requires 18 semester hours, which includes a 12 hour core:

ECO 3353 Comparative Economic Systems	3
MGT 3375 International Business	3
MKT 4310 International Marketing	3
B A 4315 International Trade Operations	3

Advanced electives	6
Total Hours	18

The advanced electives may be selected from an approved list that is available online at [http://www.mccoy.txstate.edu/Undergraduate/majors\\_programs/intlbusinessminor.html](http://www.mccoy.txstate.edu/Undergraduate/majors_programs/intlbusinessminor.html).

## Department of Accounting

McCoy Hall Room 431

T: 512.245.2566 F: 512.245.7973

[www.accounting.mccoy.txstate.edu](http://www.accounting.mccoy.txstate.edu) ([http://](http://www.accounting.mccoy.txstate.edu)

[www.accounting.mccoy.txstate.edu](http://www.accounting.mccoy.txstate.edu))

The McCoy College of Business Administration Department of Accounting is a student-centered learning community that prepares a diverse student population for professional success, creates and values research and other intellectual contributions, and provides service to the profession, university and community.

To accomplish our mission, the Department:

- Provides instruction and curricula emphasizing critical thinking, communication skills, and use of technology that prepare students for the changing accounting environment.
- Promotes strong conceptual foundations, technical skills, and ethical decision making and practices that prepare graduates for professional licensure, professional certification, and for future leadership roles in businesses and organizations.
- Engages in research and intellectual contributions that impact the practice of accounting, enhance the understanding of the accounting discipline, and improve the process of educating future accountants.
- Seeks to attract, develop, reward, and retain a diverse, student-oriented faculty with professional knowledge who are committed to excellence in teaching, scholarship, and service, and who participate in university governance.
- Strives to build and maintain professional relationships among students, alumni, the accounting profession, and other stakeholders.

The accounting curriculum provides a broad education in theory, ethics and practice. Students completing the four year prescribed program of study earn the Bachelor of Business Administration degree with a major in accounting. Career options include accounting for corporations, industry, governmental, and other not-for-profit organizations.

For a Bachelor of Business Administration with a major in accounting all students must achieve the following grade point averages for graduation:

1. A Texas State GPA of 2.00
2. A Business GPA of 2.25 (includes common business core, major(s), and restrictive/advanced electives)
3. A GPA of 2.0 in the minor(s); and
4. A Major GPA of 2.50.

To meet the educational requirements to take the Uniform CPA Examination in Texas current law requires 150 semester credit hours, including 30 hours of upper-division accounting (including a research course), and 24 hours of upper-division business courses (including business communications). Students may contact the Texas State Board of Public Accountancy at (512) 305-7870 or at <http://www.tsbpa.state.tx.us> to verify the educational requirements. Although these hours may be satisfied with undergraduate courses, the

Department provides a 33 hour Master of Accountancy (M.Acy.) program and a 36 hour Master of Science major in Accounting and Information Technology (M.S.A.I.T.) program which offer graduate level accounting courses. Students completing one of these graduate programs should experience greater opportunities for initial employment and career success. In addition to the career choices available to B.B.A. graduates, M.Acy. graduates position themselves for career opportunities in public accounting specializing in auditing, tax, or management consulting, corporate accounting, and accounting for nonprofit governmental organizations.

To make the transition from undergraduate to graduate easier, Texas State undergraduate students who are within 6 hours of completing their undergraduate program may apply for admission to any graduate business program. This allows a student to take graduate courses as appropriate in their last undergraduate semester. Students must complete their undergraduate program at the end of that semester. For more information about graduate program requirements and the admission process, please consult the graduate catalog. To talk with a graduate academic advisor, students should contact the Accounting Department, (512) 245.2566, or go to McCoy Hall 431.

## Bachelor of Business Administration (B.B.A.)

- Major in Accounting (p. 143)

## Bachelor of Business Administration (B.B.A)/Master of Accountancy (M.Acy)

- Major in Accounting (5-Year Integrated) (p. 143)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Accounting (ACC)

### ACC 2301. Accounting in Organizations and Society.

Introductory accounting course for non-business majors. Describes the role of accounting as an information system essential for the operation of today's organizations. Focus is on (1) how data is captured and processed to provide information for decision-making, and (2) how the information provided can be used for decision-making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 2325. Financial Analysis and Accounting.

A study of financial statement analysis and overview of financial statements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### ACC 2361. Introduction to Financial Accounting.

This course introduces financial accounting concepts and their application in the accounting process for business organizations, including financial statement preparation, analysis and communication of financial information and related ethical responsibilities. Prerequisite: Math 1319 or equivalent or SAT Mathematics score of 580 to 800 or ACT Math (MP) score of at least 27

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ACCT 2301

### ACC 2362. Introduction to Managerial Accounting.

This course provides an introduction to the use of accounting information as an aid to management decision making and budgeting. Students will gain an appreciation of control processes and an understanding of accounting reports and related ethical responsibilities. Prerequisites: ACC 2361 and MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ACCT 2302

### ACC 3313. Intermediate Accounting I.

An in-depth study of accounting concepts and standards with emphasis on current theory and practices relating to corporate financial statements particularly stressing asset measurement and presentation. Prerequisites: ACC 2361 and ACC 2362 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3314. Intermediate Accounting II.

This course provides a study of accounting problems related to liability measurement, determination of stockholders' equity, earnings per share, leases, and revenue recognition. It also covers intangibles and investments. Prerequisite: ACC 3313 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3363. Governmental Accounting.

A study of concepts and techniques of fund accounting, and financial reporting for governmental and not-for-profit organizations including state and local government, universities, hospitals, and other public sector entities. Prerequisite: ACC 3313 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3365. Cost/Managerial Accounting.

The study of cost/management accounting within the manufacturing and merchandising environment. Includes the analysis of cost accumulation, planning, and control within the organization. Specific topics emphasized are job order and process costing; standard costing, standard costing and variance analysis; absorption and direct costing; budgetary procedures; cost/volume profit analysis; and capital budgeting techniques. Prerequisites: QMST 2333; ACC 2362 with a grade of "C" or higher, and completion or concurrent enrollment in ACC 3313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 3385. Accounting Systems.**

A study of elements of theory, procedures, and practice relating to system design and implementation for manual and computerized accounting information systems. Emphasis placed on system selection, data entry, file structure, internal control implementation, and report generation for various information end-users. Prerequisites: ACC 3313 with a grade of "B" or higher; CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 4313. Auditing and Internal Controls.**

This course provides a study of the theory and practices relating to auditing. The course emphasizes the procedures used to evaluate the effectiveness of risk management and control processes, including prevention and detection of fraud. Prerequisites: ACC 3314 and ACC 3385 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ACC 4328. Survey of Income Tax.**

An introduction to Federal income tax provisions, concepts and issues concerning individuals, business and property transactions. The coursework focuses on income and expense recognition as well as tax planning opportunities. Prerequisite: ACC 3313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 4390A. International Accounting.**

This course introduces students to accounting issues unique to multinational enterprises and international business activity. Financial accounting practices are compared across different countries. The development of international accounting standards is also explored.

Prerequisite: ACC 3313. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics

**Grade Mode:** Standard Letter

## Bachelor of Business Administration (B.B.A.) Major in Accounting

**Minimum required: 120 semester hours**

Freshman			
	First Semester	Hours	Second Semester
			Hours
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>1</sup>	3
US 1100	1		
	16		15

Sophomore			
	First Semester	Hours	Second Semester
			Hours
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
HIST 1320	3	POSI 2320	3

QMST 2333	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
	15		15

Junior			
	First Semester	Hours	Second Semester
			Hours
ACC 3313	3	ACC 3314	3
ACC 3365	3	ACC 3385	3
CIS 3380	3	MKT 3343	3
Free Elective	3	MGT 3453	4
MGT 3303	3	FIN 3312	3
	15		16

Senior			
	First Semester	Hours	Second Semester
			Hours
ACC 3363	3	ACC 4313	3
ACC 4328	3	Free Electives	7
Free Electives	6	MGT 4335	3
Select one of the following:	3		
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
	15		13

Total Hours: 120

<sup>1</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Bachelor of Business Administration/ Master of Accountancy Major in Accounting (5-year Integrated)

**Minimum required: 150 semester hours**  
**General Requirements**

- A Texas State Accounting major may apply for admittance to the M.Acy. program once the student has completed the following:
  - at least 90 credit hours,
  - at least 12 upper-level Accounting courses, and
  - ACC 3313 and ACC 3314 with a grade of "B" or better.
- All applicants to the M.Acy. program will provide the following:
  - at least two completed reference forms,
  - GMAT or GRE score, and
  - an essay on the topic indicated in the application materials.

However, submission of the GMAT or GRE score and essay will be optional for a Texas State Accounting major who:

- has earned a 3.2 GPA or higher in the last 60 of coursework,



b. has earned a 3.4 GPA or higher in upper-level Accounting courses, and

c. provides at least two satisfactory reference forms from Texas State faculty.

Freshman			
First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
COMM 131C	3	CIS 1323	3
US 1100	1	Life and Physical Sciences	3
Life and Physical Sciences	3		
16		15	

Sophomore			
First Semester	Hours	Second Semester	Hours
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
HIST 1320	3	BLAW 2361	3
QMST 2333	3	POSI 2320	3
English Literature	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
15		15	

Junior			
First Semester	Hours	Second Semester	Hours
ACC 3313	3	ACC 3314	3
ACC 3365	3	ACC 3385	3
CIS 3380	3	MGT 3453	4
FIN 3312	3	MKT 3343	3
MGT 3303	3	Free Electives (undergrad)	3
15		16	

Senior					
First Semester	Hours	Second Semester	Hours	Summer	Hours
ACC 3363	3	ACC 5370	6	Free Electives (undergrad)	7
ACC 4328	3	ACC 5350 or 5372	3		
ACC 4313	3	ACC 5389	3		

Free Electives (undergrad)	6		
15		12	
		7	
Fifth Year			
First Semester	Hours	Second Semester	Hours
ACC 5316	3	BLAW 5368J	3
ACC 5366	3	Electives (grad)	9
MGT 4335	3		
Free Electives (undergrad)	3		
12		12	

Total Hours: 150

## Department of Computer Information Systems and Quantitative Methods

McCoy Hall Room 404

T: 512.245.2291 F: 512.245.1452

[www.cis.txstate.edu](http://www.cis.txstate.edu) (<http://www.cis.txstate.edu>)

The mission of the Department of Computer Information Systems and Quantitative Methods (CISQM) is to provide relevant educational opportunities to students wishing to pursue professional careers related to information systems, technology and data analytics. The department strives to create an environment for preparing individuals for a lifetime of learning and growth by producing graduates who understand the concepts and uses of information systems and are capable of applying these concepts to business and government.

The computer information systems curriculum provides a strong foundation in the concepts and applications of information systems and technology in organizations. It gives CISQM majors the opportunity to study enterprise design, business intelligence, data analytics, database development, network and security administration, programming languages, and the integration of hardware and software systems with management practices. Students completing the prescribed program of study earn the Bachelor of Business Administration degree with a major in Computer Information Systems. Beginning in 2017, CISQM will offer a concentration in Data Analytics, which will prepare the students for the emerging world of Big Data and how to effectively analyze business situations for optimal decision making.

CISQM graduates pursue careers as IT integrators, global enterprise system architects, database administrators, network administrators, information security analysts, business systems analysts, application developers, digital-business solution developers, and information systems managers. Graduates work for technology companies, high-tech startup companies, government agencies, accounting firms, oil companies, financial and insurance institutions, retail firms, manufacturing concerns, and consulting companies where they are succeeding at the highest levels.

## Bachelor of Business Administration (B.B.A.)

- Major in Computer Information Systems (p. 147)

### Certificate

- Computer Information Systems

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: CIS (p. 145), QMST (p. 147)**

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## Courses in Computer Information Systems (CIS)

### CIS 1323. Introduction to Microcomputer Applications.

This course develops advanced information technology skills, focusing on office productivity software. Primary emphasis is placed on spreadsheet, database, and presentation software. Advanced techniques are presented for use in data analysis and decision-making. Students will be expected to demonstrate mastery of these techniques in a hands-on environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 1301

### CIS 2324. Visual Programming I.

An introduction to application program development to include requirement analysis, design, implementation, and testing. A blend of structured and object-oriented concepts is used to form solutions to business problems using a visual programming language. Prerequisite: CIS 1323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BCIS 2316

### CIS 3317. E-Business.

Explores the constantly changing world of e-Business from an international perspective. This course will emphasize e-Business challenges and opportunities in the worldwide marketplace, while focusing on global issues of management, implementation, and integration of IT resources. Does not count for CIS advanced elective credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3325. Visual Programming II.

An advanced visual programming course covering topics related to the design and implementation of user interface, business logic and data access in a tiered architecture. The emphasis is on techniques that take advantage of a development framework through the use of forms, classes, and objects. Prerequisite: CIS 2324

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3350. Information Security Assurance: Principles and Practices.

This course examines the concepts of information systems and network availability, integrity, and confidentiality in order to develop effective security controls, processes, practices, and procedures. Topics include methodologies, models, architectures, access control systems, ethics, and legal implications of IT security. Prerequisites: Overall GPA 2.0 required. Restricted to Juniors or Seniors in BBA or CJ majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3360. e-Business Applications Design and Development.

The course focuses on designing effective e-business applications to support the e-business strategy of a company. It covers e-business models, business solution delivery strategy, web required architectures, and development and deployment of dynamic, multi-tiered, transaction-oriented, e-business applications in a business-to-business environment. Prerequisite: CIS 3325 and ACC 2362

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3374. System Analysis and Design.

The analysis and general design phases of the system development life cycle are reviewed. Emphasis on techniques and tools for determining systems requirements that lead to the development of logical design models using structured and object-oriented methodologies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### CIS 3375. Enterprise Computing Skills using COBOL.

Basic features of the COBOL language. Emphasis is on structured program development and file processing. Topics include file processing, sort feature, and subprograms. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3380. Enterprise Information Technology and Business Intelligence.

Students will extend their ability to effectively use integrated software applications to identify and provide access to various information sources. The course will focus on applying information and Internet Technologies that span normal business functions for the development and implementation of solutions to managerial problems. Prerequisites: CIS 1323, MATH 1329 or equivalent, and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIS 3382. Computer Data Base Systems.

Concepts and methodology of planning, design, development, and management of the computerized data base. The emphasis is on logical database design and a study of relational implementation. A relational DBMS with a relational query language is used for the development of a business application system. Prerequisites: CIS 3374 and completion of or concurrent enrollment in CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3389. Business Application Programming III.**

This course will continue the study of business-oriented software development using an object-oriented programming language. Topics covered will include client/server object relationships, inheritance, polymorphism, encapsulation, inner classes, threads, GUI design, and the use of event models. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3390. Project Management for Business Professionals.**

An introduction to project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Program management, system methodologies, material procurement, human, and international issues will be examined from the perspective of their impact on functional disciplines in the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4318. Enterprise System Development and Application Security.**

Advanced use of information technology in the design and implementation of business applications to support electronic commerce. Concepts, methodology, and toolsets for designing, implementing, and management of applications in Business-to-Business paradigm. Prerequisites: CIS 3382 and CIS 3325 or CIS 3389

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4319. Mobile Application Development for Windows.**

This course introduces the concepts, methodology, and toolset for designing business applications. Students will learn the MVC development framework and .Net programming environment for Windows to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4320. Mobile Application Development for Apple-iOS.**

This course introduces the concepts, methodologies, and toolset for designing business applications for mobile devices such as iPhone and iPad. Students will learn the MVC development framework and Objective-C programming environment for Apple-iOS to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4321. Mobile Application Development for Android.**

This course introduces the concepts, methodology, and toolset for designing business applications for mobile devices. Students will learn the MVC development framework and Java programming environment for Android to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4322. Computer System Development and Design.**

A course that integrates systems development with analysis, design, project management, and the systems development life cycle. Object-oriented methods and UML models will be used to develop a project for a client. Students will select methodology, platform, and development technology based on client requirements. Prerequisites: CIS 3325 and CIS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4332. Enterprise Resource Planning Systems.**

The use of advanced information technology for integrating business functions in an enterprise through distributed databases is emphasized. Methodology and tools for the selection and implementation of Enterprise Resource Planning (ERP) systems are discussed. Students will use available ERP software to create, track and communicate enterprise information. Prerequisite: CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4348. Fundamentals of Data Communications.**

A course oriented to the technical concepts of data communications and network designs and how they relate to contemporary computer end-user environments. It incorporates the systems approach for understanding, designing, managing, securing, and implementing data communication networks. Students will analyze and design data communication networks for various business situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4349. Advanced Database Management Systems.**

This course introduces advanced concepts and database processes to support applications for Business Intelligence. Multi-dimensional modeling along with database, reporting, and analysis capabilities of a modern database environment will be used to design and develop stored procedures, views, user-defined functions, reports and multi-dimensional information cubes. Prerequisite: CIS 3382. Co-requisite: QMST 3339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4350. Information Systems Security.**

This course focuses on the technology and managerial issues related to information systems security. Topics include: Attack methods, access control, authentication, firewalls, incident and disaster response, disaster recovery, security function management, and cryptography. Prerequisite: CIS 4348

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4358. Network Administration.**

This course provides students with an understanding of the responsibilities assigned to network administrators. Students will acquire a working knowledge of these responsibilities and skills using tools and technologies for administering enterprise networks via network operating systems commonly used in modern business enterprises. Prerequisite: CIS 4348

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4360. Developing Business Solutions for the Enterprise.**

An introduction to the concepts, methodology, and toolsets for the architecture, design, implementation, and deployment of business solutions for the enterprise in a services-oriented computing environment. Topics include services-oriented architecture, "Software as a Service" framework, n-tier development of business and data services, and application security. Prerequisites: CIS 3325 and CIS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4395. Independent Study in Computer Information Systems.**

An in-depth study of a single topic or related problem solved through computer information systems research. May be repeated once for credit with a different emphasis. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CIS 4399. Computer Information Systems Internship.**

This one-semester course involves an internship in business information systems. Emphasis is on the application of computer information systems theory to business problems in the area of computer based management information systems. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Courses in Quantitative Methods (QMST)

**QMST 2333. Business Statistics.**

This introductory course covers descriptive and inferential statistical techniques for business and economic decision making. Topics include measures of central tendency and dispersion, probability distributions, sampling distributions, confidence intervals, hypothesis testing, simple linear regression, and correlation analysis. Prerequisites: CIS 1323; MATH 1329 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 3334. Statistical Modeling.**

Students will learn to apply a broad range of statistical analysis techniques using statistical software in business decision-making. Topics include applied modeling techniques, such as regression modeling, time-series modeling and analysis of variance; non-parametric methods; quality control; and simulation. Prerequisite: QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 3339. Data Mining and Visualization.**

This course introduces data mining concepts and practical skills for applying data mining techniques to solve business problems. It emphasizes data visualization and data analysis algorithms (e.g., prediction, classification, clustering), systematic evaluation and model assessment for big data sets. Prerequisites: QMST 2333 or equivalent; Overall GPA of 2.0 required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 4373A. Applied Time Series.**

This course will teach the fundamentals of time series methods to be applied on real-life data. The course focuses on application, however the methodology behind the models will also be discussed. Students will learn how to pick the appropriate method for the time series of interest.

Prerequisites: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**QMST 4373C. Topics in Data Analytics.**

This course covers the process of transforming big data into information for making decisions. The topics include introduction to data science, analytics and advanced data mining algorithms, and challenges related to analyzing business data. Students will learn how to use software and conduct data analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Bachelor of Business Administration (B.B.A.) Major in Computer Information Systems

**Minimum required: 120 semester hours**

Freshman				
	First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3	
POSI 2310	3	HIST 1310	3	
MATH 1329	3	PHIL 1320	3	
Life and Physical Sciences	3	Life and Physical Sciences	3	
COMM 1310	3	CIS 1323 <sup>1</sup>	3	
US 1100	1			
	16		15	

Sophomore				
	First Semester	Hours	Second Semester	Hours
ACC 2361	3	ACC 2362	3	
ECO 2314	3	ECO 2315	3	
B A 2310	3	CIS 2324	3	
HIST 1320	3	POSI 2320	3	
QMST 2333	3	BLAW 2361	3	
	15		15	

Junior				
	First Semester	Hours	Second Semester	Hours
Select one of the following:	3	QMST 3334 or 3339	3	
ART 2313		CIS 3382	3	
DAN 2313		FIN 3312	3	
MU 2313		MGT 3303	3	
TH 2313		MGT 3453	4	
CIS 3325	3			
CIS 3374	3			
CIS 3380	3			
Select one of the following:	3			
ENG 2310				
ENG 2320				
ENG 2330				
ENG 2340				
ENG 2359				
ENG 2360				
	15		16	

Senior				
	First Semester	Hours	Second Semester	Hours
Restricted Business Elective	3	CIS Advanced Electives	9	

CIS Advanced Electives	6 MGT 4335	3
MKT 3343	3 Free Elective	1
Free Elective	3	
	15	13

Total Hours: 120

<sup>1</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

### CIS Advanced Electives

CIS 3350	Information Security Assurance: Principles and Practices	3
CIS 3360	e-Business Applications Design and Development	3
CIS 3375	Enterprise Computing Skills using COBOL	3
CIS 3389	Business Application Programming III	3
CIS 3390	Project Management for Business Professionals	3
CIS 4318	Enterprise System Development and Application Security	3
CIS 4319	Mobile Application Development for Windows	3
CIS 4320	Mobile Application Development for Apple-iOS	3
CIS 4321	Mobile Application Development for Android	3
CIS 4322	Computer System Development and Design	3
CIS 4332	Enterprise Resource Planning Systems	3
CIS 4348	Fundamentals of Data Communications	3
CIS 4349	Advanced Database Management Systems	3
CIS 4350	Information Systems Security	3
CIS 4358	Network Administration	3
CIS 4360	Developing Business Solutions for the Enterprise	3
CIS 4395	Independent Study in Computer Information Systems	3
CIS 4399	Computer Information Systems Internship	3

### Restricted Business Electives

ACC 3313	Intermediate Accounting I	3
BLAW 3360	Business Organizations and Government Regulations	3
ECO 3335	Managerial Economics	3
FIN 3313	Financial Management	3
MGT 3360	Studies in Entrepreneurship	3
MGT 4375	Organizational Behavior and Human Relations	3
MKT 3370	Marketing Research	3
MKT 3387	Technology and Marketing	3
MKT 4310	International Marketing	3

## Certificate in Computer Information Systems

The Department of Computer Information Systems and Quantitative Methods offers an intensive program leading to a Certificate in Computer Information Systems (CIS). The program is directed at students who wish to gain information technology (IT) exposure without having to pursue a full degree program in computer information systems. Students who wish to pursue the Computer Information Systems Certificate are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student. The primary objective of the program is

to offer an option to non-IT professionals and non-CIS majors to gain an initial expertise in the use of information technology to develop computer-based business information systems. Students must apply for admission in the Department of Computer Information Systems and Quantitative Methods prior to taking any courses and successfully complete 18 semester hours of course work in information technology (IT). These include 12 semester credit hours of required core CIS courses and 6 semester credit hours of CIS advanced elective courses. Required courses include:

The certificate requires 18 hours. Students must complete:

CIS 2324	Visual Programming I	3
CIS 3325	Visual Programming II	3
CIS 3374	System Analysis and Design	3
CIS 3382	Computer Data Base Systems	3
CIS Advanced Electives. Select two of the following:		6
CIS 3360	e-Business Applications Design and Development	
CIS 3375	Enterprise Computing Skills using COBOL	
CIS 3389	Business Application Programming III	
CIS 3390	Project Management for Business Professionals	
CIS 4318	Enterprise System Development and Application Security	
CIS 4319	Mobile Application Development for Windows	
CIS 4320	Mobile Application Development for Apple-iOS	
CIS 4321	Mobile Application Development for Android	
CIS 4322	Computer System Development and Design	
CIS 4332	Enterprise Resource Planning Systems	
CIS 4348	Fundamentals of Data Communications	
CIS 4349	Advanced Database Management Systems	
CIS 4350	Information Systems Security	
CIS 4358	Network Administration	
CIS 4360	Developing Business Solutions for the Enterprise	
CIS 4395	Independent Study in Computer Information Systems	
CIS 4399	Computer Information Systems Internship	

Total Hours 18

Students interested in pursuing the certificate program should contact the Chair of Computer Information Systems and Quantitative Methods, McCoy Hall 404 or visit the Department website at [www.cis.txstate.edu](http://www.cis.txstate.edu) (<http://www.cis.txstate.edu>).

## Department of Finance and Economics

McCoy Hall Room 504

T: 512.245.2547 F: 512.245.3089

[www.fin-eco.mccoy.txstate.edu](http://www.fin-eco.mccoy.txstate.edu) (<http://www.fin-eco.mccoy.txstate.edu>)

The mission of the Department of Finance and Economics is to provide students the ability to pursue learning throughout their lives, accept responsibility for their actions, and contribute to the common goals of society. Departmental programs are designed to develop informed citizens capable of thinking critically and succeeding in a highly-complex, interdependent, global society. Ideally, graduates will successfully



compete for employment in both the public and private sectors and for entrance to high-quality graduate education.

The Department includes two closely related disciplines - finance and economics. Economics studies the use of scarce resources to satisfy unlimited wants. The department's introductory courses meet the need for basic economic and legal understanding in a complex modern society. Upper-division economics and business law courses build upon this foundation. Finance addresses the behavior and determinants of securities prices, portfolio management, and the management of corporate and public funds. In addition, the relationships among monetary policy, the banking system, and financial markets are analyzed.

Students completing one of the three curricula offered by the department earn a Bachelor of Business Administration with a major in either economics or finance, or they may earn a Bachelor of Arts with a major in economics. Finance graduates pursue careers in financial management, banking and other financial institutions, the securities industry, financial planning, and real estate. Economics graduates follow career paths similar to finance majors. Those with the B.A. degree often enter graduate or law school.

## Bachelor of Arts (B.A.)

- Major in Economics (p. 153)

## Bachelor of Business Administration (B.B.A.)

- Major in Economics (p. 153)
- Major in Finance (p. 154)

## Minor

- Economics (p. 155)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: BLAW (p. 149), ECO (p. 149), FIN (p. 151)**

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## Courses in Business Law (BLAW)

### BLAW 2361. Legal Environment of Business.

A survey of basic features of the American legal system and legal aspects of business transactions. Topics include the nature and sources of law, court systems and procedures, agency, torts, contracts, ethics, and government regulation of business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BUSI 2301

### BLAW 3360. Business Organizations and Government Regulations.

This course studies corporations, partnerships, limited liability companies, securities law, law for small business, administrative law, consumer law, environmental law, antitrust law, and insurance. Prerequisite: BLAW 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### BLAW 3363. International Business Law.

This course studies the principles of international business law which emphasizes the commercial activities of the multinational firm conducting business in global economic, political, social and cultural environments. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

### BLAW 3364. Commercial Law.

This course studies sales law, negotiable instruments, secured transactions, suretyship, bankruptcy, personal property and bailments, real property, and creditors' rights and remedies. Prerequisite: BLAW 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### BLAW 3367. Employment Law.

This course studies the legal developments in the workplace, with emphasis on attempts to maintain a proper balance between employees' interest in earning a livelihood and employers' interest in operating their business efficiently and profitably. Prerequisite: PHIL 1320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### BLAW 4395. Independent Study in Business Law.

An in-depth study of a single topic or related problem solved through business law research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Economics (ECO)

### ECO 2301. Principles of Economics.

A non-technical study of micro- and macroeconomic principles, including demand and supply, production and cost, market structures, aggregate output and performance of the economy, the business cycle and growth, unemployment and inflation, money and banking, fiscal policy, monetary policy, and international trade and finance. Not for business or economics majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** ECON 1301

### ECO 2314. Principles of Microeconomics.

This course provides an introduction to the microeconomics of a modern industrial society. Emphasis is placed on supply and demand, cost and price concepts, market structures, income distribution, and similar issues. Prerequisite: MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** ECON 2302

**ECO 2315. Principles of Macroeconomics.**

This course provides an introduction to the macroeconomics of a modern industrial society. Emphasis is placed on the analysis of national income, economic stability, fiscal policy, money and banking, economic growth, and international trade. Prerequisites: ECO 2314; MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ECON 2301

**ECO 3301. Economics of Sports.**

This course focuses on the business and economics aspects of professional and intercollegiate sports. Topics include the role of sports leagues, the demand for sports, the structure of labor markets in the four major sports, salaries of professional athletes, antitrust legislation, and intercollegiate athletics. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3304. Environmental Economics for Decision Makers.**

Economic analytical tools and concepts are used to understand how the environment, economy, and businesses interact and the importance of public policy in shaping this interaction. Natural resources as inputs to production are explored. Current policy issues and environmental problems provide illustration and application. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3305. Law and Economics.**

Economic analytical tools and concepts are used to understand how the environment, economy, and businesses interact and the importance of public policy in shaping this interaction. Natural resources as inputs to production are explored. Current policy issues and environmental problems provide illustration and application. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3311. Money and Banking.**

A study of money and credit in the modern economy. Examines the development of modern money and banking systems, the structure of the Federal Reserve System, and monetary theory. Prerequisites: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3313. Labor Economics.**

A study of the application to labor markets of supply and demand principles. Topics include the work/leisure decision, time allocation in the household, the demand for education and training, the firm's use of labor inputs, the impact of unions, and discrimination in labor markets based on race and gender. Prerequisite: ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3314. Intermediate Microeconomics.**

A study of the application to labor markets of supply and demand principles. Topics include the work/leisure decision, time allocation in the household, the demand for education and training, the firm's use of labor inputs, the impact of unions, and discrimination in labor markets based on race and gender. Prerequisite: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3315. Intermediate Macroeconomics.**

An analysis of the traditional and modern theories of inflation, unemployment, long-run economic growth, and stabilization policies for promoting economic stability. Prerequisites: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3317. International Economics.**

A study of the basis for trade among nations and the means of its financing, customs unions, balance-of-payments problems, and similar issues. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ECO 3320. Emerging Market Economies.**

The course focuses on the structural characteristics of the emerging market economies, with an emphasis on analyzing the salient economic challenges and opportunities facing contemporary emerging market economies. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3327. Public Finance.**

A study of the growth of the revenue and debt of the United States, taxation and tax incidence theory, and the effect of public expenditures and taxes on economic growth. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3334. Business Enterprise and Public Policy.**

A survey of the development and structure of American industry and of governmental regulation of business. Prerequisite: ECO 2314. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3335. Managerial Economics.**

A study of the application of economic analysis in the formulation of business policies. Includes demand analysis and pricing policies. Prerequisite: ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3353. Comparative Economic Systems.**

An analysis of the theory and practice of capitalism, socialism, and communism. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4305. Urban and Regional Economics.**

A study of urban and regional economic issues including regional growth, crime, transportation, and the urban-rural interface. A focus on sources and uses of models and data unique to regional science and urban economics. Prerequisites: ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4313. Econometrics.**

This course studies statistical estimation, inference and forecasting methods used in economic research with a focus on models and methods unique to economics. Prerequisites: ECO 2314 and ECO 2315, QMST 2333, MATH 1329 or equivalent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4390. Internship in Economics.**

Integration of professional and academic experience through an internship with an external employer. Prerequisites: Open to Economics majors only, students must have completed at least nine hours of major courses, enrollment subject to availability and approval, and credit awarded as pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ECO 4395. Independent Study in Economics.**

An in-depth study of a single topic or related problem solved through economic research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Finance (FIN)

**FIN 3301. Real Estate.**

A study of basic real estate principles. Topics include legal instruments and processes, property management, valuations, planning, development and sales, financing, and private and public interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3312. Business Finance.**

This course is an introduction to the finance function and to problems confronting financial managers. Topics covered include ratio analysis, time value of money, asset valuation, and risk and return. Prerequisites: ACC 2362; CIS 1323; ECO 2314; ECO 2315; MATH 1329 or equivalent; and completion of, or concurrent enrollment in, QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3313. Financial Management.**

This course is an advanced study of intermediate and long-term financing alternatives, the incorporation of risk analyses in capital budgeting and the determination of capital costs, capital structure, and dividend policies. Prerequisites: FIN 3312 with a grade of "C" or higher and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3316. Financial Information Technologies.**

The course introduces students to technology supporting financial modeling and decision making. Students use computers to apply concepts and theories learned in the introductory Finance course. Course relies on quantitative analysis and use of the internet. Prerequisites: FIN 3312 with a grade of "C" or higher and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3318. Investment Analysis.**

This course studies the principles governing the investment of personal and institutional funds. Also examined are information sources, exchanges, and regulations. Prerequisites: FIN 3312 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3325. Personal Financial Management.**

A study of modern money management, including budgeting, banking, real estate, insurance, consumer credit, and retirement and estate planning. Not for Business majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3326. Financial Planning Insurance.**

An introduction to the steps in the financial planning process. Topics include assessing financial objectives, financial planning, and personal financial management. Insurance planning is emphasized. Prerequisites: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3335. Retirement Planning and Employee Benefits.**

Planning for individual and family retirement using models, software, and the analysis of federal regulations. Employee benefits are described and analyzed based on current practices and federal regulations.

Prerequisites: FIN 3318 and FIN 3326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4317. Case Problems in Finance.**

An application of investment and financial management techniques and concepts to finance cases. Issues and alternatives are identified and evaluated. Prerequisites: FIN 3312, FIN 3313, and FIN 3316. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FIN 4318. Portfolio Management & Derivatives.**

An advanced investments course which includes the following topics: portfolio analysis and management, derivatives theory and pricing, and applications of derivatives in portfolio management. Prerequisites: FIN 3313, FIN 3316, FIN 3318

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4319. Financial Markets and Institutions.**

A study of financial assets, money and capital markets, institutional intermediaries, and the impact of interest rates. Affords a thorough examination of the financial system facilitating economic growth and development. Prerequisites: ECO 3311; FIN 3313, FIN 3316. Prerequisite or co-requisite: FIN 3318

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4320. Treasury and Working Capital Management.**

A study of working capital and short-term financial management. Major topics include cash collections, cash concentration, disbursement management, forecasting cash flows, management of receivables and inventory, banking relationships, and short-term investment and borrow strategies. Prerequisites: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4321. Real Estate Finance.**

An analysis of problems involved in selecting and financing real estate investment opportunities. Prerequisite: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4322. Student Managed Investment Fund Practicum.**

The course examines the issues involved in the management and investment strategies of an endowment. It focuses on investment analysis, asset allocation, portfolio monitoring, evaluation, and rebalancing. May be repeated one time for credit with different emphasis. Prerequisites: FIN 3318 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FIN 4325. Advanced Financial Planning.**

Advanced course for finance majors interested in financial planning. Topics include ethics in the financial services industry, retirement planning and employee benefits, and estate planning. Prerequisites: FIN 3318, FIN 3326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4326. Financial Plan Development.**

Financial Plan Development. Capstone course in personal financial planning. Integration of the financial planning curriculum in the development and presentation of a comprehensive personal financial plan. Prerequisites: FIN 3335, FIN 4325. Prerequisite/Corequisite: ACC 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FIN 4331. International Finance.**

A study of international finance principles and their application in a multinational financial management setting. Prerequisites: ECO 3311, FIN 3313, and FIN 3316. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FIN 4340. Commercial Bank Management.**

Examines a variety of aspects of managing a commercial bank. Provides students with a conceptual framework for determining the effects of various decisions and environmental factors on a commercial bank's operations. Issues addressed include bank regulations, asset and liability management, analyzing bank performance, and capital management.

Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4380A. Advance Capital Budgeting.**

A study of capital budgeting techniques, analyses (including risk), and strategies, and their implementation in capital assets investment.

Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FIN 4380F. New Venture Finance.**

An advanced study of methodologies to value financial investments; including but not limited to capital expenditures, commercial real estate, public companies, private companies, and start-up companies. Additional studies will include cost of capital structure and funding sources and alternatives. Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FIN 4380G. Financial Modeling and Equity Analysis.**

This course reviews and extends students' ability to perform financial statement analysis and forecasting. The focus of the course is on producing objective, theory-based company valuation research. Students will choose and defend inputs for qualitative analysis, and discover the importance of qualitative factors in firm value and performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FIN 4380H. Introduction to Fiduciary Law.**

This course will develop the student's fiduciary knowledge and skills. Students will develop a basic understanding of estate and trust administration, risk management, compliance, and tax planning. Key concepts will include Intestate Succession, Wills, Estate Administration, Trusts, Fiduciary Litigation, Wealth Transfer Taxation, Death and Disability Planning. Prerequisites: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FIN 4380I. Introduction to Trust Principles.**

The course will explain the principles of estate planning, taxation and different forms of property ownership. A focus will be on the characteristics, administration and usage of trusts, retirement plans, guardianships and powers of attorney. Students will also follow the process of creating and administering a will containing Trust provisions. Prerequisite: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FIN 4390. Internship in Finance.**

Integration of professional and academic experience through an internship with an external employer. Open to Finance majors only, students must have completed at least nine hours of major courses, enrollment subject to availability and approval, credit awarded as pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FIN 4395. Independent Study in Finance.**

An in-depth study of a single topic or related problem solved through finance research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Economics

### Minimum required: 120 semester hours

The following requirements apply to all Bachelor of Arts programs:

1. GPA Requirement - To be eligible to declare the B.A. in Economics students must be in good academic standing.
2. Minor Requirement - A minor is required and may be selected from any of the Texas State approved minors (excluding the economics minor).
3. Science Requirement - In addition to completing the mathematics and life and physical sciences requirements of the general education core curriculum, students must complete one additional science course (3-4 hours) from anthropology (biological anthropology only), biology, chemistry, computer science, geography (physical geography only), mathematics, philosophy (logic only), and physics.

		Freshman	
	First Semester Hours		Second Semester Hours
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	Free Elective	3
US 1100	1		
	16		15

		Sophomore	
	First Semester Hours		Second Semester Hours
ECO 2314	3	ECO 2315	3
ENG Literature	3	BA Science Requirement	3

Minor as required	3	Minor as required	3
Modern Language 2310 <sup>1</sup>	3	Modern Language 2320 <sup>1</sup>	3
HIST 1320	3	POSI 2320	3
	15		15

		Junior	
	First Semester Hours		Second Semester Hours
ECO 3314	3	ECO 3315	3
Free Elective	3	ECO Advanced Elective <sup>2</sup>	3
Minor as required	6	ENG LIT BA Requirement	3
Select one of the following:	3	Minor (as required) or Free Electives	6
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
	15		15

		Senior	
	First Semester Hours		Second Semester Hours
ECO Advanced Elective <sup>2</sup>	3	ECO Advanced Electives <sup>2</sup>	6
Free Electives	9	Free Electives	8
Minor (as required) or free elective	3		
	15		14

Total Hours: 120

<sup>1</sup> A proficiency level of successful completion of American Sign Language, Arabic, Chinese, French, German, Italian, Japanese, Latin, or Spanish 2310 and 2320. Most students will need to complete 1410 and 1420 as prerequisites before attempting 2310.

<sup>2</sup> ECO advanced electives may be chosen from any 3000-4000 level ECO courses not required for the major (excluding any ELADV course).

## Bachelor of Business Administration (B.B.A.) Major in Economics

### Minimum required: 120 semester hours

		Freshman	
	First Semester Hours		Second Semester Hours
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>3</sup>	3
US 1100	1		
	16		15

		Sophomore	
	First Semester Hours		Second Semester Hours
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
HIST 1320	3	POSI 2320	3
QMST 2333	3	Select one of the following:	3



	ART 2313		
	DAN 2313		
	MU 2313		
	TH 2313		
	15		15
			<b>Junior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
CIS 3380	3 ECO 3315		3
ECO 3314	3 ECO Advanced Elective <sup>1</sup>		3
ECO Advanced Elective <sup>1</sup>	3 MKT 3343		3
Select one of the following:	3 FIN 3312		3
ENG 2310	MGT 3453		4
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
MGT 3303	3		
	15		16
			<b>Senior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
Business, Advanced Elective <sup>2</sup>	3 Free Elective		1
ECO Advanced Elective <sup>1</sup>	3 Business, Advanced Electives <sup>2</sup>		6
Select one of the following:	3 ECO Advanced Elective <sup>1</sup>		3
MGT 4330	MGT 4335		3
FIN 3316			
QMST 3334			
Free Electives	6		
	15		13

Total Hours: 120

- <sup>1</sup> ECO advanced electives may be chosen from any 3000-4000 level ECO courses not required for the major (excluding any ELADV course).
- <sup>2</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).
- <sup>3</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Bachelor of Business Administration (B.B.A.) Major in Finance

### Minimum required: 120 semester hours

			<b>Freshman</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
ENG 1310	3 ENG 1320		3
POSI 2310	3 HIST 1310		3
MATH 1329	3 PHIL 1320		3
Life and Physical Sciences	3 Life and Physical Sciences		3
COMM 1310	3 CIS 1323 <sup>2</sup>		3

US 1100	1		
	16		15
			<b>Sophomore</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
ACC 2361	3 ACC 2362		3
ECO 2314	3 ECO 2315		3
B A 2310	3 BLAW 2361		3
HIST 1320	3 POSI 2320		3
QMST 2333	3 Select one of the following:		3
	ART 2313		
	DAN 2313		
	MU 2313		
	TH 2313		
	15		15

			<b>Junior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
MGT 3303	3 MGT 3453		4
CIS 3380	3 ECO 3311		3
FIN 3312	3 FIN 3313		3
ACC 3313	3 FIN 3316		3
Select one of the following:	3 FIN 3318		3
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			

			<b>Senior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
Free Elective	3 Free Electives		4
MKT 3343	3 FIN Advanced Elective		3
FIN Advanced Elective	3 FIN 4319		3
ACC Advanced Elective	3 MGT 4335 (Capstone)		3
ECO Advanced Elective <sup>1</sup>	3		
	15		13

Total Hours: 120

- <sup>1</sup> ECO advanced elective may be chosen from any 3000-4000 level ECO course not required for the major (excluding any ELADV course).
- <sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

### FIN Advanced Electives

FIN 4317	Case Problems in Finance	3
FIN 4318	Portfolio Management & Derivatives	3
FIN 4320	Treasury and Working Capital Management	3
FIN 4321	Real Estate Finance	3
FIN 4322	Student Managed Investment Fund Practicum	3
FIN 4325	Advanced Financial Planning	3
FIN 4326	Financial Plan Development	3
FIN 4331	International Finance	3
FIN 4340	Commercial Bank Management	3

Any FIN 4380 course

### ACC Advanced Electives

ACC 3314	Intermediate Accounting II	3
ACC 3365	Cost/Managerial Accounting	3
ACC 3385	Accounting Systems	3
ACC 4328	Survey of Income Tax	3

## Minor in Economics

A minor in Economics requires 18 hours. Economics majors are not eligible to select the economics minor.

ECO 2314	Principles of Microeconomics	3
ECO 2315	Principles of Macroeconomics	3
Select at least 12 hours of advanced ECO electives		12
Total Hours		18

## Department of Management

McCoy Hall Room 524  
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[www.mgt.mccoy.txstate.edu](http://www.mgt.mccoy.txstate.edu) (<http://www.mgt.mccoy.txstate.edu>)

The mission of the Department of Management is to educate our students to become successful managers and leaders in a dynamic business world. To accomplish this mission, we balance effective teaching with scholarly activities and our professional service contributions. Faculty strive for quality in all department course offerings and undertakings to help prepare students for leadership and service in private and public organizations.

The Management program prepares students for challenging careers in a variety of business and governmental organizations, as well as secondary education. Management majors typically pursue careers in human resource management, industrial relations, production management, hospital administration, office management, and sales management. The concentration in Entrepreneurial Studies is designed for students who wish to start, operate, or expand their own businesses or family-owned businesses. The concentration in Human Resource Management is designed to prepare students for careers in human resource management. Both concentrations consist of 12 hours of undergraduate coursework that may be accommodated within the 120 hours required in the undergraduate business curriculum. Students choosing teacher certification pursue careers as secondary education teachers or in the private sector. More information is available in the McCoy College Academic Advising Center.

## Bachelor of Business Administration (B.B.A.)

- Major in Management (p. 159)
- Major in Management (Entrepreneurial Studies Concentration) (p. 159)
- Major in Management (Human Resource Management Concentration) (p. 160)
- Major in Management (Teacher Certification in Business Education, Grades 6-12) (p. 160)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Management (MGT)

### MGT 3303. Management of Organizations.

A study of management functions in modern organizations, the internal and external environmental factors affecting organizational efficiency, and the application of quantitative and behavioral science to management study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MGT 3353. Business Communication.

This course provides an introduction to the uses of communication in business and focuses on communication models, general semantics, effective writing style, selection and organization of content and medium(s), effective oral communication, employment communication, and causes of miscommunication. Students will not receive credit for both MGT 3353 and MGT 3453. Prerequisites: ENG 1310, ENG 1320; and COMM 1310 or COMM 2338. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required/Writing Intensive

**Grade Mode:** Standard Letter

### MGT 3360. Studies in Entrepreneurship.

Students gain personal insights into entrepreneurship as entrepreneurs describe their contributions, reveal the sources of ideas, and discover ways of growth and success. Includes starting and managing businesses as well as ownership forms, sources of funds, location analysis, facility requirements, management, marketing, and feasibility plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MGT 3361. Small Business Operations and Financials.

This course is a study of funding and financial concepts necessary to effectively operate a successful small business. Students will use software programs to maintain working capital and a complete set of books related to running businesses. Prerequisite: ACC 2361 or ACC 2301. Co-requisite: MGT 3360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MGT 3362. Family Business and Franchising.

This course addresses the important and unique management aspects of family businesses and franchises. Family business topics include family culture, communication, conflict resolution, succession, and estate planning. Franchising topics include franchise selection, contracts, legal issues, and current trends in franchising. Issues affecting both the franchisee and the franchisor are explored. Prerequisite: MGT 3361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 3365. Communication Systems.**

Office information and decision support systems are examined as critical elements in business data and information systems. Emphasis is given to information processing considerations at the systems level, including analysis and management of support activities such as data and records management, electronic filing and retrieval systems, word processing, micro and reprographics, and telecommunications. Includes discussions of current and future technological trends. Prerequisite: MGT 3303. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 3375. International Business.**

International business perspectives underlying different business functions. Concepts, processes, and philosophical bases for international operations in selected global markets are emphasized with culture and global dynamic environment as the basis. A project is required. Prerequisite: MGT 3303. (MULT) (WI)

Prerequisite: MGT 3303. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 3453. Business Communication and Professional Development.**

This course is designed to enhance critical professional skills including interviewing, networking, teamwork, emotional and cultural intelligence, public speaking, and applicable ethical considerations. It introduces theories of business communication including communication models, general semantics, and causes of miscommunication. Students will not receive credit for both MGT 3453 and MGT 3353. Prerequisites: ENG 1310, ENG 1320; and COMM 1310 or COMM 2338. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4315. Business Principles, Issues and Trends.**

Review of the fundamentals of business administration as applied to contemporary business problems. Also, a discussion of current business issues and trends. Open to students seeking certification only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4330. Operations Management.**

A study of the various aspects of managing production and operations management functions in manufacturing and service organizations. Methods necessary for analyzing and solving related problems to design, operations, and improvements of the systems that create products and/or services in a global supply chain environment are investigated and emphasized. Prerequisites: MGT 3303; QMST 2333 or IE 3330 or TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4335. Strategic Management and Business Policy.**

An integrative course in strategic management and business policy that utilizes the case method of instruction. A capstone course involving the analysis of business through the application of principles of accounting, communications, economics, finance, management, marketing, quantitative methods, and related disciplines. Prerequisites: MGT 3303; MKT 3343; FIN 3312; QMST 2333. Capstone course and open only to seniors in business. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4340. Quality Management and Beyond.**

A conceptual and practical overview of the role of quality as a system for establishing a "world class" competitive position. It explores philosophies and ideas of the leading thinkers in quality management, impact of process improvement methods, quality requirements definition and organizational change as it applies to total quality initiatives.

Prerequisites: QMST 2333 or consent of professor. MGT 4330 is recommended. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4350. Business Plan Development.**

Students work in teams to select, create, and write solid business plans for proposed or real businesses. Prerequisite: MGT 3361. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4351. Applied Entrepreneurship.**

Students design, staff, operate, and manage a business or service. Business teams develop financial and operational control systems and procedures for organizational, group, and individual performance evaluations, implement service and business projects, and provide a final public report. Prerequisite: MGT 4350

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4353. Integrative Field Project.**

Students work directly with entrepreneurs to research projects and recommend solutions. May involve providing business development assistance to entrepreneurs. Students may work individually or in teams. Project results are summarized in a comprehensive written report and a formal oral presentation. Permission of the instructor and chair is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MGT 4370. Business Ethics.**

This course examines a variety of ethical issues in business from the point of view of practicing manager and corporate leaders. This course is designed to enhance moral awareness and facilitate individual development with respect to making ethical decisions that contribute to effective corporate management and leadership. Prerequisites: PHIL 1320; MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MGT 4371. Business, Government, and Society.**

An integration of a number of disciplines and value systems which affect and determine the proper role of business in satisfying the needs of customers, creditors, community, government, stockholders, managers, employees, suppliers, and society in general. Prerequisite: MGT 3303  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4372. Effective Leadership.**

This course facilitates the development of leadership capabilities and addresses the complexities, paradoxes, and challenges of leadership. Through self-assessments, readings, lectures, and assignments students gain an appreciation of effective leadership approaches and are provided with opportunities to practice new leadership behaviors. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4373. Human Resource Management.**

A study of the principles of human resource management in public and private institutions. Stresses the human resource aspects of recruitment, selection and placement, performance appraisal and compensation. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4375. Organizational Behavior and Human Relations.**

A study of the role of the individual in formal organizations, group dynamics, motivation theory, communication and leadership. Integrates behavioral science concepts. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4377. Labor Relations and Collective Bargaining.**

A study of unions and their impact on private and public employment. Examines union growth and governance, collective bargaining, contract negotiation and administration, and arbitration and mediation. Prerequisite: MGT 4373. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4378. Training and Development.**

This course is designed to develop theoretical and applied perspective on needs assessment, design, development, delivery and evaluation of training and development in organizational contexts. Prerequisites: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4379. Organizational Staffing.**

A study of current theory and practice in the process of selecting the right employees for positions within the organization, including HR planning, EEO, job analysis, recruitment, and selection procedures. Prerequisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4380. Compensation Management.**

A study of the compensation administration in public and private organizations, with stress on the determinants of general wage levels; job analysis and evaluation; incentive, merit, seniority, and executive compensation; fringe benefits, and wage and salary control. Prerequisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4390A. Advanced Business Communication.**

An advanced study of the uses of business communication in modern organizations. Students gain experience in making decisions involving selection and organization of communication content, and in choosing an appropriate medium for presentation of information. Emphasis is placed on gaining proficiency in various business communication processes. Prerequisite: MGT 3303 and MGT 3353. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4390B. Management of the Digital Enterprise.**

A study of management in the digital age. Course will look at the impact of digital communications and the new economy on traditional and e-commerce businesses. Topics will include changes in both strategic management as well as functional management (marketing, operations, finance, HR, etc.) Prerequisite: MGT 3303. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4390E. Management of New Product Development.**

Identifies the requirements and benefits of effective and efficient new product development. Topics include best practices of new-product development management, managing the new product process from idea generation, evaluation and selection; business case development; validation and verification testing; and product launch; and product portfolio management. Prerequisites: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390G. Cross-Cultural Human Relations.**

This course is designed to develop theoretical and applied perspectives on cross-cultural human relations within a variety of international business contexts. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390J. Organizational Change.**

This course presents an overview of the change process and stresses the key issues involved in reengineering and renewing organizations. Problems dealing with stress and conflict during major change will be explored, along with practical ideas on building effective teams to make change possible and sustainable. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390K. Business Creativity and Innovation.**

Focuses on the importance of creativity and innovation to business organizations. Topics include the generation of creative ideas, transformation of ideas into commercially viable products/services, legal protection of new products/services, and environmental factors contributing to innovation success. Course objectives are met primarily through classroom discussion and exercises. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390L. Managing Projects.**

Intensive coverage of management in a wide range of project applications from concept through operations. Planning, scheduling, controlling, economic analysis, quality control and customer satisfaction. Prerequisite: MGT 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390N. Management Thought: Past, Present, and Future.**

This course examines how management thought has developed over time. It discusses how changing political, social, economic, and technological forces have challenged managers to respond in new ways. Significant management ideas will be examined in their contexts to better understand how to successfully manage for the future. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 4390O. Leadership Development: Business as Unusual.**

This course is a directed study and practical application of the principles of "Business as Unusual". Students will develop leadership skills for the experience economy through an intensive, highly interactive class format. Students will be paired with upper-level business professionals for one-on-one coaching and mentoring

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390P. Coaching and Mentoring Practicum.**

This course is a directed, practical application of extant leadership theories and principles. Students will further develop their leadership skills through intensive experiential activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390Q. Introduction to Business in a Global Environment.**

The course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross border impacts of culture, politics, and law on trade, investment, marketing, management, and accounting and financial systems. Restricted to BBA students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390R. Transformative Leadership for Nonprofits (NPs) and Non-Governmental Organizations (NGOs).**

This course provides a practical and strategic understanding of the legal, management and marketing challenges facing nonprofit and non-governmental organizations and the transformative leadership required to guide them as they attempt to do something positive for people, society and/or the environment beyond or between the roles of government and business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390S. Business Contracts/Negotiation.**

This course focuses on techniques for the development and strategic planning required for successfully negotiating business contracts, negotiation skills, and conflict resolution issues/techniques. Prerequisite: MGT 3303. Co-requisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4392. Human Resource Management Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Management majors with human resource management concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election. Prerequisites: MGT 4373, Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4393. Entrepreneurial Internship.**

The internship class provides integration of prior professional and academic experience through an entrepreneurial internship with an external employer. Prerequisite: MGT 3360. Restricted to Management majors with entrepreneurship concentration only. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4395. Management Internship.**

This course provides an integration of professional and academic experience through internship with an external employer. Enrollment subject to availability and approval, credit is pass/fail or grade at department election

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4399. Independent Study in Management.**

Directed research and extensive written assignment(s) on a selected topic related to student's area of interest. Work may consist of literature reviews, integration of literature, or other appropriate independent research, and/or practical application of research. May be repeated once with different emphasis for credit. Prerequisite: Consent of Instructor and Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



## Bachelor of Business Administration (B.B.A.) Major in Management

Minimum required: 120 semester hours

Freshman	
First Semester Hours	Second Semester Hours
ENG 1310	3 ENG 1320
POSI 2310	3 HIST 1310
MATH 1329	3 PHIL 1320
Life and Physical Sciences	3 Life and Physical Sciences
COMM 1310	3 CIS 1323 <sup>3</sup>
US 1100	1
16	15

Sophomore	
First Semester Hours	Second Semester Hours
ACC 2361	3 ACC 2362
ECO 2314	3 ECO 2315
B A 2310	3 BLAW 2361
HIST 1320	3 POSI 2320
QMST 2333	3 Select one of the following:
	ART 2313
	DAN 2313
	MU 2313
	TH 2313
15	15

Junior	
First Semester Hours	Second Semester Hours
Free Elective	3 Business, Advanced Elective <sup>1</sup>
MGT 3303	3 MGT 3453
MKT 3343	3 Free Electives
CIS 3380	3 FIN 3312
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
15	16

Senior	
First Semester Hours	Second Semester Hours
Business, Advanced Electives <sup>1</sup>	6 Business, Advanced Elective <sup>1</sup>
MGT 4330	3 Free Elective
MGT 4373	3 MGT Advanced Electives <sup>2</sup>
MGT 4375	3 MGT 4335
15	13

Total Hours: 120

<sup>1</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).

<sup>2</sup> MGT advanced electives may be chosen from any 3000-4000 level MGT courses not required for the major (excluding any ELADV course).

<sup>3</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Bachelor of Business Administration (B.B.A.) Major in Management (Entrepreneurial Studies Concentration)

Minimum required: 120 semester hours

Freshman	
First Semester Hours	Second Semester Hours
ENG 1310	3 ENG 1320
POSI 2310	3 HIST 1310
MATH 1329	3 PHIL 1320
Life and Physical Sciences	3 Life and Physical Sciences
COMM 1310	3 CIS 1323 <sup>2</sup>
US 1100	1
16	15

Sophomore	
First Semester Hours	Second Semester Hours
ACC 2361	3 ACC 2362
ECO 2314	3 ECO 2315
B A 2310	3 BLAW 2361
HIST 1320	3 POSI 2320
QMST 2333	3 Select one of the following:
	ART 2313
	DAN 2313
	MU 2313
	TH 2313
15	15

Junior	
First Semester Hours	Second Semester Hours
Free Elective	3 Business, Advanced Elective <sup>1</sup>
MGT 3303	3 CIS 3380
MKT 3343	3 FIN 3312
MGT 3453	4 Free Elective
MGT 3360	3 MGT 3361
16	15

Senior	
First Semester Hours	Second Semester Hours
MGT 4350	3 Select one of the following:
Select one of the following:	3 MGT 3362
ENG 2310	MGT 4351
ENG 2320	MGT 4353
ENG 2330	MGT 4393

ENG 2340	Business, Advanced Elective <sup>1</sup>	3
ENG 2359	Free Electives	4
ENG 2360	MGT 4335	3
MGT 4330	3	
MGT 4373	3	
MGT 4375	3	
	15	13

Total Hours: 120

<sup>1</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).

<sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Bachelor of Business Administration (B.B.A.) Major in Management (Human Resource Management Concentration)

Minimum required: 120 semester hours

		Freshman	
	First Semester Hours	Second Semester Hours	
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>2</sup>	3
US 1100	1		
	16		15

		Sophomore	
	First Semester Hours	Second Semester Hours	
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
HIST 1320	3	POSI 2320	3
QMST 2333	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
	15		15

		Junior	
	First Semester Hours	Second Semester Hours	
Free Electives	6	CIS 3380	3
MGT 3303	3	FIN 3312	3
MKT 3343	3	MGT 4373	3
MGT 3453	4	MGT 4375	3
		Business, Advanced Elective <sup>1</sup>	3
	16		15

		Senior	
	First Semester Hours	Second Semester Hours	
MGT 4330	3	Restricted Advanced Business Elective	3
Restricted Advanced Business Electives	6	Advanced Business Elective <sup>1</sup>	3
Business, Advanced Elective <sup>1</sup>	3	Free Electives	4
Select one of the following:	3	MGT 4335	3
		ENG 2310	
		ENG 2320	
		ENG 2330	
		ENG 2340	
		ENG 2359	
		ENG 2360	
	15		13

Total Hours: 120

<sup>1</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).

<sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

### Restricted Advanced Business Elective

MGT 4377	Labor Relations and Collective Bargaining	3
MGT 4378	Training and Development	3
MGT 4379	Organizational Staffing	3
MGT 4380	Compensation Management	3
MGT 4392	Human Resource Management Internship	3
BLAW 3367	Employment Law	3

## Bachelor of Business Administration (B.B.A.) Major in Management (Teacher Certification in Business Education, Grades 6-12)

Minimum required: 125 semester hours  
General Requirement

1. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

		Freshman	
	First Semester Hours	Second Semester Hours	
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	Select one of the following:	3
Life and Physical Sciences	3	ART 2313	
COMM 1310	3	DAN 2313	
US 1100	1	MU 2313	
		TH 2313	
		Life and Physical Sciences	3

		CIS 1323 <sup>3</sup>	3
		16	15
<b>Sophomore</b>			
First Semester Hours		Second Semester Hours	
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
Select one of the following:	3	POSI 2320	3
ENG 2310		QMST 2333	3
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
HIST 1320	3		
PHIL 1320	3		
		18	15
<b>Junior</b>			
First Semester Hours		Second Semester Hours	
CIS 3380	3	CI 4332	3
MGT 3453	4	CI 3325	3
MGT 3303	3	FIN 3325	3
MKT 3343	3	Select one of the following:	3
FIN 3312	3	MGT 3375	
		MGT 4390G	
		MKT 4310	
		ECO 3317	
		MGT 4373	3
		16	15
<b>Senior</b>			
First Semester Hours		Second Semester Hours	
RDG 3323	3	EDST 4681 <sup>2</sup>	6
CI 4343	3	MGT 3360	3
CI 4370	3	MGT 4371	3
MGT 4330 or QMST 3334	3	MGT 4335	3
MGT 4375	3		
		15	15

Total Hours: 125

- <sup>1</sup> Students should choose course in consultation with academic advisor.
- <sup>2</sup> Although depicted as a class to be taken in the 2nd semester of the senior year, EDST 4681 must be taken as the only class for a student's last semester.
- <sup>3</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Department of Marketing

McCoy Hall Room 424

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[www.marketing.mccoy.txstate.edu](http://www.marketing.mccoy.txstate.edu))

The mission of the Department of Marketing is to educate students to succeed in a dynamic business world. To accomplish this mission, faculty will combine effective teaching with basic, applied, and instructional scholarship with professional service. The faculty will strive for quality in all activities to help prepare students for leadership and service in a diverse, global, and competitive environment.

This program prepares students for challenging careers in a variety of business, non-profit, and governmental organizations. Marketing majors typically pursue careers in sales and sales management, product and brand management, retail management, physical distribution, marketing research, advertising, or international marketing. Texas State marketing students graduate with knowledge, skills, and a portfolio of projects that enable them to succeed in a dynamic business environment.

## Bachelor of Business Administration (B.B.A.)

- Major in Marketing (p. 163)
- Major in Marketing (Professional Sales Concentration) (p. 164)
- Major in Marketing (Services Marketing Concentration) (p. 164)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Marketing (MKT)

### MKT 3343. Principles of Marketing.

This course studies the strategic marketing process, which creates value for consumers and organizations through integrated production and distribution of products. It examines the marketing process in the context of the global, cultural, economic, legal/regulatory environment. It also examines ethical and socially-responsible marketing and the impact of information technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### MKT 3350. Consumer Behavior.

A study of the role of the consumer in marketing. Considers the motivation, personality, attitudes, perceptions, lifestyle, and decision-making processes of consumers. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### MKT 3355. Retailing.

A study of the principles of retail store management, including market and trade area analysis, store location and design, organization and operation management, merchandising, inventory control, and promotion and pricing policies. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### MKT 3358. Professional Selling.

A study of the professional selling process including strategically planning sales calls, strengthening communication skills, responding helpfully to objections, obtaining commitment and building partnerships. Examines cultivating committed relationships, strategic alliances, and partnering skills to provide total sales quality to the company, suppliers, and customers. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3360. Sales Management.**

A study of issues related to planning for, managing, motivating, directing, and controlling a sales force and related sales territories. Both international and domestic perspectives are addressed. Special emphasis is given to the efficiency (cost consideration) and effectiveness (satisfaction consideration) of sales management. Prerequisite: MKT 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3362. Studies in Free Enterprises.**

The course will focus on developing goal setting, project identification, project planning and management, marketing, financing, and implementing student directed educational programs within the I-35 corridor. The projects are aimed at increasing citizen awareness and understanding of business and economic issues. Prerequisite: Consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**MKT 3365. Services Marketing.**

The services sector dominates the U.S. economy and is becoming critical for competitive advantage in companies across the globe and in all industry sectors. This course examines the foundations of services marketing, which are necessary to create, promise, and deliver a successful, interactive customer experience. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3370. Marketing Research.**

This course offers a comprehensive study of marketing research process that includes formulating a problem, developing a research plan, determining a sample, analyzing data, preparing a research report, and linking the consumer, customer, public, and marketer through information. Prerequisites: MKT 3343; QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3375. Social Marketing.**

Social Marketing is the use of marketing principles and techniques to influence a target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a whole. In this hands-on course, students develop and implement marketing campaigns for social change on behalf of non-profit clients. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3380. Sports Marketing.**

Examines four components of sports marketing, including: (1) the foundation of sports marketing, (2) marketing through sports, including sponsorship, endorsement, and licensing strategies, (3) the marketing of sports, including marketing mix strategies, and (4) emerging topics in sports marketing, including relationship marketing, technology, and controversial issues. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3385. Ethnic and Niche Marketing.**

The course introduces students to marketing approaches used to understand and market products/services to U.S. ethnic and/or subgroups of consumers. The course includes consumer behavior and research techniques as well as implications to the marketing mix. Prerequisites: MKT 3343 and MKT 3350

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3387. Technology and Marketing.**

Study of the marketing process using technologies, e.g., the internet and mobile that support and enhance marketing capabilities, such as the distribution of information. The course examines the impact of technology on the marketing of goods and services to satisfy needs and wants of customers and stakeholders. Prerequisite: MKT 3443

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 3390. Marketing Health Care.**

A study of marketing and its role in health care, including buyer and service provider behavior, relevant marketing principles and strategies, and emerging topics, such as medical tourism, universal health care, and health care regulations. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 4310. International Marketing.**

A study of the international planning and coordination of marketing functions, marketing policies, and the analysis of marketing on an international scope including environmental and cultural aspects. Pre: MKT 3343. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter

**MKT 4325. Advanced Topics in Service Marketing.**

This class is a comprehensive study of services marketing theories, concepts, and strategies; it includes an examination of cost controls, research methodologies, branding, customer service innovation, consumer behavior, and service delivery. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 4330. Promotional Strategy.**

Analysis of promotional methods used in marketing and their relation to other business functions. Examines advertising, selling, and sales promotion. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MKT 4337. Marketing Management.**

An integrative course that applies management concepts and techniques to the solution of marketing problems. Analyzes market segments and product positioning, product and product line price, channels of distribution, and promotion. Prerequisites: QMST 2333; MKT 3343, and six additional hours of marketing courses. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**MKT 4392. Sales Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Marketing majors with sales concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election. Prerequisites: MKT 3343 and MKT 3358. Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4393. Services Marketing Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Marketing majors with services marketing concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election. Prerequisites: MKT 3343 and MKT 3365. Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4395. Independent Study in Marketing.**

Directed research and extensive written assignment on a selected topic related to student's area of interest. Work may consist of literature reviews, integration of literature, or other appropriate independent research. May be repeated once for credit with different emphasis. Prerequisite: Chair/instructor consent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MKT 4396. Directed Study in Professional Sales.**

Directed study and research in selected professional sales topics. May be repeated for credit with a different emphasis. Prerequisites: MKT 3343, MKT 3358 and consent of instructor and/or chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4397. Directed Study in Marketing.**

Directed study and research in selected marketing topics, including the development of a promotional or marketing plan. Course can be offered as individual instruction or as an organized class. Repeatable for credit with different emphasis. Prerequisite: Consent of instructor and Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**MKT 4399. Marketing Internship.**

Integration of professional and academic experience through internship with an external employer. Prerequisites: MKT majors only, junior or senior status, enrollment subject to availability and Internship Director approval, credit is pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Bachelor of Business Administration (B.B.A.) Major in Marketing

**Minimum required: 120 semester hours**

		Freshman	
	First Semester	Hours	Second Semester
	Hours		Hours
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3

MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>2</sup>	3
US 1100	1		
	16		15

**Sophomore**

	First Semester	Hours	Second Semester	Hours
ACC 2361	3	ACC 2362	3	
ECO 2314	3	ECO 2315	3	
B A 2310	3	BLAW 2361	3	
HIST 1320	3	POSI 2320	3	
QMST 2333	3	Select one of the following:	3	
		ART 2313		
		DAN 2313		
		MU 2313		
		TH 2313		
	15		15	

**Junior**

	First Semester	Hours	Second Semester	Hours
CIS 3380	3	Free Elective	3	
Free Elective	3	FIN 3312	3	
MGT 3303	3	MGT 3453	4	
MKT 3343	3	MKT 3350	3	
Select one of the following:	3	MKT 3370	3	
		ENG 2310		
		ENG 2320		
		ENG 2330		
		ENG 2340		
		ENG 2359		
		ENG 2360		
	15		16	

**Senior**

	First Semester	Hours	Second Semester	Hours
Business, Advanced	3	Business, Advanced	3	
Elective <sup>1</sup>		Elective <sup>1</sup>		
MKT Advanced Electives	6	Free Elective	1	
MKT 3358	3	MGT 4335	3	
MKT 4330	3	MKT 4310	3	
		MKT 4337	3	
	15		13	

Total Hours: 120

<sup>1</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).

<sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

**MKT Advanced Electives**

MKT 3355	Retailing	3
MKT 3360	Sales Management	3
MKT 3362	Studies in Free Enterprises	3
MKT 3365	Services Marketing	3



MKT 3375	Social Marketing	3
MKT 3380	Sports Marketing	3
MKT 3385	Ethnic and Niche Marketing	3
MKT 3387	Technology and Marketing	3
MKT 3390	Marketing Health Care	3
MKT 4325	Advanced Topics in Service Marketing	3
MKT 4395	Independent Study in Marketing	3
MKT 4396	Directed Study in Professional Sales	3
MKT 4397	Directed Study in Marketing	3
MKT 4399	Marketing Internship	3

MKT 4330	3	MKT 4396	3
Select one of the following:	3	MKT 4337	3
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
		15	13

Total Hours: 120

## Bachelor of Business Administration (B.B.A.) Major in Marketing (Professional Sales Concentration)

Minimum required: 120 semester hours

Freshman			
First Semester		Hours	
Second Semester		Hours	
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>2</sup>	3
US 1100	1		
		16	15

Sophomore			
First Semester		Hours	
Second Semester		Hours	
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
HIST 1320	3	POSI 2320	3
QMST 2333	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
		15	15

Junior			
First Semester		Hours	
Second Semester		Hours	
CIS 3380	3	MKT 3358	3
Free Electives	6	FIN 3312	3
MGT 3303	3	MGT 3453	4
MKT 3343	3	MKT 3350	3
		MKT 3370	3
		15	16

Senior			
First Semester		Hours	
Second Semester		Hours	
Business, Advanced Elective <sup>1</sup>	3	MKT 4392	3
MKT 4310	3	Free Elective	1
MKT 3360	3	MGT 4335	3

<sup>1</sup> The advanced electives in business may be chosen from any 3000-4000 level business courses not required for the major (excluding any ELADV course).

<sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## Bachelor of Business Administration (B.B.A.) Major in Marketing (Services Marketing Concentration)

Minimum required: 120 semester hours

Freshman			
First Semester		Hours	
Second Semester		Hours	
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
MATH 1329	3	PHIL 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
COMM 1310	3	CIS 1323 <sup>2</sup>	3
US 1100	1		
		16	15

Sophomore			
First Semester		Hours	
Second Semester		Hours	
ACC 2361	3	ACC 2362	3
ECO 2314	3	ECO 2315	3
B A 2310	3	BLAW 2361	3
HIST 1320	3	POSI 2320	3
QMST 2333	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
		15	15

Junior			
First Semester		Hours	
Second Semester		Hours	
CIS 3380	3	MKT 3358	3
Free Electives	6	FIN 3312	3
MGT 3303	3	MGT 3453	4
MKT 3343	3	MKT 3350	3
		MKT 3365	3
		15	16

	First Semester Hours	Second Semester Hours	Senior Hours
Restricted Advanced Business Elective <sup>1</sup>	3	MKT 4393	3
MKT 4310	3	Free Elective	1
MKT 3370	3	MGT 4335	3
MKT 4330	3	MKT 4325	3
Select one of the following:	3	MKT 4337	3
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
	15		13

Total Hours: 120

<sup>1</sup> The restricted advanced business elective may be chosen from MKT 3355, MKT 3380, or MKT 3390.

<sup>2</sup> Credit can be earned by successfully passing a test. Students must pay a fee to take the test.

## College of Education

### Dean

D. Stanley Carpenter, Ph.D.  
Education Building Room 2001  
T: 512.245.2150 F: 512.245.3158  
<http://www.education.txstate.edu/>

### Associate Dean for Research and Sponsored Programs

Lisa K. Lloyd, Ph.D.

### Associate Dean for Teacher Education and Academic Affairs

Patrice H. Werner, Ph.D.

### Assistant Dean for Academic Affairs

Rubén Garza, Ph.D.

### Assistant Dean for Faculty and Staff Development

Eric A. Schmidt, Ph.D.

### Department Chairs

Counseling, Leadership, Adult Education, and School Psychology—Michael P. O'Malley, Ed.D.  
Curriculum and Instruction—Jodi Patrick Holschuh, Ph.D.  
Health and Human Performance—Duane V. Knudson, Ph.D.

The College of Education includes three academic departments. These are Counseling, Adult Education, and School Psychology (CLAS); Curriculum and Instruction (CI); and Health and Human Performance (HHP).

Teacher preparation was the original mission of Southwest Texas Normal School when it was chartered in 1899, and today faculty members in the College of Education continue to focus their efforts on this primary mission. Over the last century, the mission of the College has expanded from preparing teachers at the undergraduate level to include the preparation of educators at the master's and doctoral levels as well as the preparation of professionals in other fields including recreation administration, health and wellness promotion, athletic training, health

and fitness management, educational leadership, school psychology, professional counseling, and adult and developmental education.

## Academic Advising Center

Education Building Room 2143

T: 512.245.3050 F: 512.245.8225

[www.education.txstate.edu/advising](http://www.education.txstate.edu/advising) (<http://www.education.txstate.edu/advising>)

The College of Education Undergraduate Advising Center is a student-centered, collaborative resource for undergraduate students seeking an undergraduate degree through the College of Education. As an integral part of teaching and learning at Texas State, academic advisors in the Undergraduate Advising Center cultivate student success by engaging students in educational planning to promote academic, personal, and professional development while considering diverse interests, abilities, and goals. Services available for students include, but are not limited to:

- exploration of career and educational goals;
- assistance with selection of educational programs;
- interpretation of policies and procedures;
- information on course sequencing and degree requirements;
- referral to other university resources; and
- verification of graduation requirements.

Ultimately, the academic advisors in the College of Education Advising Center strive to develop a guidance and support system to encourage student self-reliance, responsibility, and success in achieving academic goals.

## Teacher Certification

Students seeking certification to teach EC-6 (Early Childhood through Grade Six), 4-8 (Grade Four through Grade Eight), or All-level Special Education (Early Childhood through Grade 12) will major in Interdisciplinary Studies in the Department of Curriculum and Instruction within the College of Education. Students may acquire an All-level certificate to teach Physical Education or Health in the Department of Health and Human Performance within the College of Education. Students seeking 6, 7, or 8-12 (Grade Six, Seven, or Eight through Grade Twelve) certification or All-level certification in other disciplines will instead complete an academic major within their chosen teaching field in the department and college where that major is housed. Students should note that teacher certification requirements may differ from degree requirements and that completion of both is necessary for awarding a degree and recommending a student for teacher certification. In order to pursue teacher certification, students must apply and be admitted into the Teacher Preparation Program through the Office of Educator Preparation (p. 204).

## Courses in Education Student Teaching (EDST)

### EDST 4380. Student Teaching All-Level I EC-6/4-8.

This half-semester student teaching course is designed for undergraduate students seeking All-Level teacher certification. Students will engage in teaching experiences in EC-6 or 4-8 settings for half of a 14-week assignment with university guidance and supervision. Repeatable for credit. Prerequisite: Admission to the Teacher Preparation Program; Co-requisite: EDST 4381; All coursework completed; 2.75 Overall GPA  
**3 Credit Hours. .5 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

### EDST 4381. Student Teaching All-Level II 8-12.

This half-semester student teaching course is designed for undergraduate students seeking All-Level teacher certification. Students will engage in teaching experiences in 8-12 settings for half of a 14-week assignment with university guidance and supervision. Repeatable for credit. Prerequisite: Admission to the Teacher Preparation Program; Co-requisite: EDST 4380; All coursework completed; 2.75 Overall GPA  
**3 Credit Hours. .5 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

### EDST 4680. Student Teaching 4-8.

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced 4-8 teachers in the public schools with university supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State teacher proficiencies. Prerequisites: Admission to the Teacher Preparation Program; All coursework complete; 2.75 Overall GPA  
**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

### EDST 4681. Student Teaching 8-12.

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced 8-12 teachers in the public schools with university guidance and supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State proficiencies for teachers. One conference hour per week is required. Prerequisites: Admission to the Teacher Education Program; All coursework completed; 2.75 overall GPA  
**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

### EDST 4687. Student Teaching EC-6.

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced EC-6 teachers in the public schools with university supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State teacher proficiencies. Prerequisites: Admission to the Teacher Preparation Program; All coursework completed; 2.75 Overall GPA  
**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

## Department of Counseling, Leadership, Adult Education, and School Psychology

Education Building Room 4037  
 T: 512.245.2575 F: 512.245.8872  
[www.txstate.edu/clas](http://www.txstate.edu/clas) (<http://www.txstate.edu/clas>)

The Department of Counseling, Leadership, Adult Education, and School Psychology (CLAS) is primarily a graduate department, offering programs in Professional Counseling, School Counseling, Adult Education, Educational Leadership, School Psychology, and Student Affairs in Higher Education. While the department offers no undergraduate degrees, it does provide support courses for other programs.

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: COUN (p. 166), SAHE (p. 166)**

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## Courses in Counseling (COUN)

### COUN 3320. Introduction to Counseling and Psychotherapy.

The course is designed for upper-division undergraduates considering a helping profession or who wish to know more about counseling before entering into graduate study. The course offers introduction to counseling, counseling theories, and interpersonal communication skills that facilitate counseling relationships. Repeatable for credit with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Courses in Student Affairs in Higher Education (SAHE)

### SAHE 4178. Student Leadership in Higher Education.

This course provides students with knowledge to strengthen the campus experience through holding student leadership roles. Students will learn skills, principles, and characteristics necessary for responsible and positive leadership as well as the role of student leadership and student engagement in higher education. Repeatable for credit with different emphasis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Department of Curriculum and Instruction

Education Building Room 3044  
 T: 512.245.2157 F: 512.245.7911  
[www.txstate.edu/ci](http://www.txstate.edu/ci) (<http://www.txstate.edu/ci>)

## Levels of Certification

Students who wish to teach Early Childhood (EC) through Grade 6 (elementary), Grades 4-8 (middle school), or All-Level Special Education pursue the Bachelor of Science major in Interdisciplinary Studies.

Students seeking 6-12, 7-12, or 8-12 (Grade Six, Seven, or Eight through Grade Twelve) certification or All-level certification in other disciplines will instead complete an academic major within their chosen teaching field in the department and college where that major is housed and should consult with advisors in that college.

## Interdisciplinary Studies Majors

Students seeking this major should consult with advisors in the College of Education Undergraduate Advising Center for detailed information regarding specific degree requirements, the semester-by-semester sequence, and other requirements such as block applications. Because courses must be taken in a predetermined sequence, it is likely that students will be required to attend summer sessions in order to complete the program within a 4-year time period.

## Admittance to the Teacher Preparation Program

With exception of the minor in Special Education, all degree programs within the Department of Curriculum and Instruction require formal admittance into the Teacher Preparation Program. (Refer to the Office of Educator Preparation (p. 204) section.)

## Bachelor of Science (B.S.)

- Major in Interdisciplinary Studies (Teacher Certification in Bilingual Generalist-Spanish, Early Childhood Through Grade 6) (p. 171)
- Major in Interdisciplinary Studies (Teacher Certification in English as a Second Language Generalist, Early Childhood Through Grade 6) (p. 172)
- Major in Interdisciplinary Studies (Teacher Certification in English, Language Arts, Reading and Social Studies, Grades 4-8) (p. 173)
- Major in Interdisciplinary Studies (Teacher Certification in Generalist, Grades 4-8) (p. 175)
- Major in Interdisciplinary Studies (Teacher Certification in Mathematics, Grades 4-8) (p. 176)
- Major in Interdisciplinary Studies (Teacher Certification in Mathematics and Science, Grades 4-8) (p. 177)
- Major in Interdisciplinary Studies (Teacher Certification in Science, Grades 4-8) (p. 178)
- Major in Interdisciplinary Studies (Teacher Certification in Special Education, Early Childhood Through Grade 12) (p. 178)

## Minors

- Secondary Education
- Special Education

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: CI (p. 167), ECE (p. 169), EDP (p. 169), RDG (p. 170), SPED (p. 170)**

## Courses in Curriculum and Instruction (CI)

### CI 3300. Middle School Curriculum and Instruction.

Overview of developmentally appropriate curriculum adhering to state and national standards for grades 4-8. Includes the application of learning theory in a safe classroom environment with a focus on cooperative learning, direct instruction, discovery learning, technology, and learner-centered instruction. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### CI 3310. Public Education in a Multicultural Society.

Course utilizes historical, sociocultural, and political lenses to provide an overview of public schooling as a complex system within a multicultural society. Key concepts include: educational philosophy, legal and policy issues, curriculum and instruction, equity, school-community connections, and teachers as change agents. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CI 3315. Human Development: Learning and Being in Social Contexts.

Drawing from psychological, sociological, anthropological, and historical traditions, this course explores human development, learning theories, identity issues, and multicultural education, especially as these pertain to second-language learners. Implications for classrooms and teaching are included. Prerequisite: 2.75 overall GPA. Junior Classification required. Must be declared in a degree program that leads to teacher certification. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### CI 3322. The Design and Application of the EC-6 Curriculum.

Course focuses on design and application of curricula including content, instructional methodologies and assessment. Foundational theories of human development and learning will be used as students focus on the organization of content, instructional strategies, classroom environment, utilization of materials, and assessment. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315; RDG 4320; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

### CI 3325. Adolescent Growth and Development.

Study of biological, cognitive, and psychological theories and processes of adolescence. Prepares prospective teachers to understand abilities, behaviors, and needs of learners. Roles of family, peer groups, and culture examined with the aid of contemporary adolescent literature. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 3332. Foundations of Bilingual and ESL Education.**

This course examines the rationale, history, and philosophy of bilingual and ESL education and develops students' understanding of the cultural and psychological influences that mediate the learning process.

Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, ECE 4300; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 3338. Social Studies in the Elementary and Middle School.**

The course provides learner-centered approaches to social studies knowledge, instruction, equity, communication, and professional development and prepares educators with strong foundations for powerful social studies teaching and learning practices including: (a) deep understanding/appreciation, (b) increased awareness of non-traditional approaches, (c) practical methods and applications, and (d) daily integration into teaching. Prerequisites: Junior Classification; 2.75 overall GPA. Restriction: Students majoring in Interdisciplinary Studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4300. Middle Level Philosophy and Schooling.**

Physical, social, emotional, cognitive, and moral characteristics of young adolescents in contexts of family, community, school, society. History and philosophy of middle school as a developmentally appropriate environment for young adolescents. Continued study of instruction that is affectively and cognitively appropriate for young adolescents.

Prerequisites: Admission to the Teacher Preparation Program; RDG 4310; RDG 3315; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CI 4325. Classroom Management and Teacher-Student Relationships.**

Course will focus on classroom management theories and models. Personal philosophy, beliefs, and style of teaching will be examined as they relate to the various methods of classroom management, student discipline, and teacher-student relationships. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, CI 3332, CI 4360; RDG 4320; ECE 4300, ECE 4310, ECE 4352; Co-requisites: RDG 3315, RDG 3321; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4332. Secondary Teaching: Curriculum and Technology.**

This course investigates secondary curriculum, its history, organization, development, and representation in instructional materials. Students learn how curriculum is decided, impacted, and assessed, and the role of technology in curriculum. Topics include local, state, and national standards, trends, and roles of culture and technology in teaching and learning. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4343. Instructional Strategies for the Secondary Teacher.**

This course focuses on the study of models for instruction, with attention to assessment and classroom management. Students develop and practice strategies for building classroom communities, teaching all learners, and integrating technology into instruction. The focus is on meeting the needs of individual learners while maintaining academic rigor. Prerequisites: Admission to the Teacher Preparation Program; CI 3325 and CI 4332; 2.75 Overall GPA; Corequisites: CI 4370 and RDG 3323

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4350. Mathematics in the Integrated Elementary Curriculum.**

Course provides an in-depth study of the mathematics content and methodology derived from principles of learning and research. Primary focus will be on the development of mathematics understanding and relevant applications rather than manipulation of numbers without context, purpose, or concepts. Students will develop the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and develop techniques for evaluating pupil progress within a field-based environment. Prerequisites: MATH MATH 1315, MATH 1319, MATH 2417, MATH 2471, or MATH 2472; MATH 2311 and MATH 2312. Grades of "C" or higher must be earned in all prerequisites. 2.75 overall GPA required. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4355. Science in Elementary Education.**

Course provides an overview of science standards and content, research-based science pedagogy, and the scientific process skills required for a developmentally appropriate, inquiry-driven science curriculum that facilitates the development of scientific literacy for all students, including second language learners. Prerequisites: PHYS 1310 or PHYS 1315 or PHYS 1410; and PHYS 1320 or PHYS 1325 or PHYS 1420; and PHYS 1110 or PHYS 1115 or PHYS 1125; and BIO 1320 or BIO 1430 or BIO 1330 or BIO 1431 or BIO 1331 or BIO 1421. Grades of "C" or higher must be earned in all prerequisites. 2.75 overall GPA required. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4360. Methods and Materials for Teaching ESL in the Content.**

This course addresses content, methods, and materials of elementary ESL classroom instruction, including curricula, strategies, and materials for meeting the needs of English language learners in all academic content areas. Prerequisites: Admission to the Teacher Preparation Program; ECE 4300 (for ESL Generalists); CI 3332, CI 4361 (for Bilingual Generalists); 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter



**CI 4361. Psychological Foundations of Bilingual Education.**

The study of the educational foundation and development of bilingual education. The evaluation of achievement and learning ability of the Limited English Proficient (LEP) pupil will be examined. The psychological development of the LEP pupil and relationship of cultural values, socialization practices and learning styles will be analyzed. Prerequisites: Admission to the Teacher Preparation Program; Junior classification; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4362. The Elementary Bilingual Content Areas.**

A study of the mathematics, science, social studies, and language arts curriculum of the bilingual elementary classroom. Prerequisites: Admission to the Teacher Preparation Program; CI 3332, CI 4361, and 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4365. Biliteracy for Bilingual Learners.**

This course targets the dynamic, reciprocal process of literacy development in Spanish and English for bilingual learners. Theories, instructional methods and strategies, texts, and materials will be examined through an integrated approach that considers sociocultural, cognitive, linguistic, and political factors. The course will be taught in both Spanish and English. Prerequisites: Junior standing or higher; Admission to the Teacher Preparation Program; 2.75 Overall GPA; CI 3332, CI 4362

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4370. Classroom Management, Ethics, and Legal Issues in Secondary Teaching.**

This course focuses on the development of an appropriate classroom management system based on current theory and research, analysis of legal and ethical issues as they relate to classroom teachers and students, and field experiences in a variety of secondary classroom environments. Prerequisites: Admission to the Teacher Preparation Program; CI 3325 and CI 4332; 2.75 Overall GPA; Corequisites: CI 4343 and RDG 3323

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4378. Problems in Education.**

Individual problems related to areas of selected study for the undergraduate student, designed to meet individual differences for the purpose of certification. A letter following the course title on the permanent record will indicate the area of emphasis according to this code: (i) Elementary, (j) Secondary, and (l) Bilingual. Repeatable for credit with different emphasis. Prerequisite: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Early Childhood Education (ECE)

**ECE 4300. The Languages of Children: Acquisition and Use.**

This course is designed to provide pre-service teachers with pertinent information regarding the development of language and cognition in pre-school and school-aged children. Information regarding language structure, the sequence of development as well as the cognitive and social aspects of language acquisition and use will be included. Prerequisites: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 4310. Seminar for Teachers of Young Children.**

Directed field experiences in observation, participation, problem solving, assessing and teaching in programs for young children. A minimum of 1.5 hour seminar per week is required in addition to assignment (three hours weekly) in an approved preschool or kindergarten program. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, ECE 4300; Co-requisite: ECE 4352; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ECE 4352. Curriculum for Preschool and Kindergarten Children.**

Emphasizes research, program development, and developmentally appropriate teaching strategies, materials and activities for children ages 3-6 and collaboration with families. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, ECE 4300; Co-requisite: ECE 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 4380. Independent Study in Early Childhood.**

In-depth study of selected topics of current need or interest in early childhood education. Work due on independent study basis with faculty member and only with permission of department. Repeatable for credit with different emphasis. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Educational Psychology (EDP)

**EDP 1350. Effective Learning.**

A study of the acquisition of procedural knowledge through the application of human learning theory, cognitive behavior modifications, and developmental psychology. Generalization and transfer of this knowledge will be emphasized. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Reading (RDG)

### RDG 1300. Reading Improvement.

A content-based learning strategies course for students who require compensatory instruction in vocabulary, reading comprehension, critical reading, study skills, and test-taking skills. Required for students who fail to make passing scores on the TASP reading subtest. Concurrent enrollment in specific sections of appropriate general education courses is required. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial|Lab Required

**Grade Mode:** Developmental

### RDG 3312. Reading and Writing Instruction for Children with Special Needs.

Course focuses on classroom reading instruction for children not making average progress in literacy. Course topics: nature and identification of literacy difficulties, including dyslexia; modification of instruction for children with special needs; diagnostic teaching, teacher/program effectiveness and legal requirements of special populations. Prerequisites: Admission to the Teacher Preparation Program; RDG 3315, RDG 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RDG 3315. Assessing Literacy: Early Childhood Through Grade Six.

Students will understand principles of literacy assessment to guide literacy instruction for all children, including culturally and linguistically diverse students, and plan appropriate instruction in a field-based setting. Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, CI 3332, CI 4360, ECE 4300, ECE 4310, ECE 4352; Co-requisites for EC-6: RDG 3321, RDG 3320; Co-requisite for 4-8: RDG 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RDG 3320. Integrating Reading and Writing.

Course focuses on the integration of reading and writing with other subject areas, especially social studies, with special attention given to ESL methodologies for language arts instruction. The workshop approach for reading and writing is emphasized. Prerequisites: Admission to the Teacher Preparation Program; Co-requisites: RDG 3315, RDG 3321; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### RDG 3321. Literacy Instruction for Early Childhood Through Grade Six.

Course provides for the understanding, critical analysis, and application of current literacy methods and materials, with a focus on ESL theories and methodologies. Course is taught in a field-based setting. Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, CI 3332, CI 4360, ECE 4300, ECE 4310, CI 4352; Co-requisites: RDG 3315, RDG 3320; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### RDG 3323. Teaching Reading in the Content Areas.

Provides information about reading in secondary content areas emphasizing selection and use of materials, including textbooks in print and electronic formats. Topics include instructional strategies, assessment of comprehension, and adapting instruction to meet student needs. Prerequisites: Admission to the Teacher Preparation Program; CI 3325, CI 4332; Co-requisites: CI 4343, CI 4370; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RDG 4310. Content Reading.

Course provides information about instruction in the elementary content areas with emphasis on the effective use of textbooks and tradebooks. Course topics include: nature and purpose of content instruction and reading, text selection, use of tradebooks, comprehension, inquiry learning and problem solving, and assessment and meeting individual needs in content reading. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3325; Co-requisite: RDG 3315; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RDG 4320. Language and Literacy in Diverse Communities.

Course includes the examination of sociolinguistic theories and an introduction to culturally responsive teaching of literacy. Topics address social identity factors, ethnicity, language variation, bilingualism, and the acquisition of Standard American English with implications for effective literacy instruction. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

### RDG 4380. Independent Study in Reading Instruction.

Analysis and interpretation of selected topics of special interest in reading and language arts instruction. Topics and instructors will vary from semester to semester. Repeatable for credit with different emphasis. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Special Education (SPED)

### SPED 2360. Survey of Exceptionalities.

Course provides for the examination of types, characteristics, and causes of various exceptionalities; identifies federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community. Prerequisite: Sophomore classification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 3338. Educating Students with Emotional/Behavioral Disorders.**

This course addresses topics associated with teaching students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues. Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA. Co-requisites: SPED 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 3390. Assessing Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude; academic achievement; social, emotional, and motor development; and includes implications of these results for instruction or remediation. Prerequisites: Admission to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on an independent study basis with faculty member and available only with permission of department. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SPED 4340. Evidence-Based Instructional Practices for Students with Mild or Moderate Disabilities.**

This course delineates evidence-based instructional theories and practices for students with mild or moderate disabilities. The course targets curricular and instructional design for students who need specialized methods for successful learning. Topics include curriculum-based measurement and progress monitoring, specialized evidence-based strategies matched to presenting characteristics, and evidence-based inclusion models. Prerequisites: 2.75 Texas State GPA, SPED 2360. Prerequisite/corequisite: SPED 3390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4344. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented. Prerequisite: 2.75 overall GPA. Junior classification required. Must be admitted to the Teacher Preparation Program or Minor in Special Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4345. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas. Prerequisites: Admission to the Teacher Preparation Program and Minor in Special Education; SPED 2360; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4374. Classroom and Behavior Management Strategies for Students with Disabilities.**

Effective strategies for classroom management. Topics include: common management problems, evaluation of classroom management approaches, strategies for preventing behavior problems, teaching new behaviors, increasing desired group and individual behaviors, and positive strategies for reducing inappropriate group and individual behaviors.

Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4381. Educating Students with Intellectual and Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques pertaining to individuals with intellectual and developmental disabilities. Techniques include specialized assessment and instructional strategies, functional curriculum development, transition planning, positive behavior supports, and assistive technologies. Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education, 2.75 Overall GPA, SPED 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4389. Special Education Practicum.**

This course provides opportunities for students to design and apply assessment, planning, and instructional strategies. Students may be required to instruct in one or more content areas including academic, life, social, prevocational or vocational and/or communication skills. Prerequisites: Admittance to the Teacher Preparation Program; SPED 2360, SPED 3338 or SPED 4381, SPED 4345, SPED 4374; 2.75 Overall GPA

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## **Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Bilingual Generalist-Spanish, Grades EC-6)**

### **Minimum required: 125 semester hours**

#### **General Requirements**

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).

2. A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
3. All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
4. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
5. Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

<b>Freshman</b>	<b>Hours</b>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 1315 or 1319 <sup>1</sup>	3
PHYS 1310 <sup>1</sup>	3
PHYS 1110 <sup>1</sup>	1
PHYS 1320 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
US 1100	1
	29

<b>Sophomore</b>	<b>Hours</b>
Select one of the following:	3
ARTT 3370	
MU 3370	
TH 3370	
BIO 1320 <sup>1</sup>	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
ESS 3321 or H ED 3321	3
GEO 1310	3
HIST 1310	3
HIST 1320	3
MATH 2311	3
MATH 2312	3
PHIL 1305 or 1320	3
SPAN 3308 <sup>2</sup>	3
SPAN 3371	3
	36

<b>Junior</b>	<b>Hours</b>
CI 4325	3

CI 4350	3
GS 3310	3
GS 3320	3
Education Core:	12
CI 3310	
CI 3315	
ECE 4300	
RDG 4320	
Bilingual Field-Based Block One:	9
CI 3332	
CI 4361	
CI 4365	
	33

<b>Senior</b>	<b>Hours</b>
CI 3338	3
CI 4355	3
SPED 4344	3
Bilingual Field-Based Block Two:	12
CI 4360	
CI 4362	
RDG 3315	
RDG 3321	
EDST 4687 (Student Teaching)	6
	27

Total Hours: 125

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 or MATH 1319 requirement.
  - BIO 1421 or BIO 1330 or BIO 1331 with a grade of "C" or better can satisfy the BIO 1320 requirement.
  - PHYS 1315 with a grade of "C" or better can satisfy the PHYS 1310 requirement.
  - PHYS 1325 with a grade of "C" or better can satisfy the PHYS 1320 requirement.
  - PHYS 1115 or PHYS 1125 with a grade of "C" or better can satisfy the PHYS 1110 requirement

- <sup>2</sup> SPAN 1410, SPAN 1420, SPAN 2310, and SPAN 2320 are prerequisites for SPAN 3308.

## Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in English as a Second Language Generalist, Grades EC-6)

**Minimum required: 125 semester hours**  
**General Requirements**

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
2. A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.

- All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
- Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

<b>Freshman</b>	<b>Hours</b>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 1315 or 1319 <sup>1</sup>	3
PHYS 1310 <sup>1</sup>	3
PHYS 1110 <sup>1</sup>	1
PHYS 1320 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
US 1100	1
	<b>29</b>

<b>Sophomore</b>	<b>Hours</b>
Select two of the following:	6
ARTT 3370	
MU 3370	
TH 3370	
BIO 1320 <sup>1</sup>	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
ESS 3321 or H ED 3321	3
GEO 1310	3
HIST 1310	3
HIST 1320	3
MATH 2311	3
MATH 2312	3
PHIL 1305 or 1320	3
	<b>33</b>

<b>Junior</b>	<b>Hours</b>
FCD 3355	3
GS 3310	3
GS 3320	3
SPED 4344	3

Education Core:	12
CI 3310	
CI 3315	
ECE 4300	
RDG 4320	
ESL Block:	6
CI 3332	
CI 4360	
ECE Block:	6
ECE 4310	
ECE 4352	
	<b>36</b>

<b>Senior</b>	<b>Hours</b>
CI 3338	3
CI 4350	3
CI 4355	3
RDG 3320	3
Elementary Field-Based Block:	9
RDG 3315	
RDG 3321	
CI 4325	
EDST 4687 (Student Teaching)	6
	<b>27</b>

Total Hours: 125

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 or MATH 1319 requirement.
  - BIO 1421 or BIO 1330 or BIO 1331 with a grade of "C" or better can satisfy the BIO 1320 requirement.
  - PHYS 1315 with a grade of "C" or better can satisfy the PHYS 1310 requirement.
  - PHYS 1325 with a grade of "C" or better can satisfy the PHYS 1320 requirement.
  - PHYS 1115 or PHYS 1125 with a grade of "C" or better can satisfy the PHYS 1110 requirement

## Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in English, Language Arts, Reading and Social Studies, Grades 4-8)

**Minimum required: 122 semester hours**  
**General Requirements**

- Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
- A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.



- All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
GEO 1310	3
MATH 1315 or 1319 <sup>1</sup>	3
PHYS 1310 <sup>1</sup>	3
PHYS 1110 <sup>1</sup>	1
PHYS 1320 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
US 1100	1
	<b>32</b>

Sophomore	Hours
Advanced ENG Elective	3
Advanced ENG Elective	3
Advanced POSI Elective from Group II	3
Advanced POSI Elective from Group II	3
ECO 2301 or 2314	3
ENG 3304	3
ENG 3386	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
HIST 1310	3
HIST 1320	3
MC 3319	3
PHIL 1305 or 1320	3
	<b>36</b>

Junior	Hours
Advanced GEO Elective	3
Advanced HIST Elective	3
Select one of the following:	3
ANTH 3309	
ANTH 3314	

ANTH 3324	
GEO 4340	3
HIST 3372	3
RDG 3312	3
Education Core:	9
CI 3310	
CI 3325 <sup>1</sup>	
RDG 4320	
M.S. Field-Based Block One:	6
RDG 3315	
RDG 4310	
	<b>33</b>

Senior	Hours
RDG 3320	3
Science Elective	3
SPED 4344	3
M.S. Field-Based Block Two:	6
CI 3300	
CI 4300	
EDST 4680 (Student Teaching)	6
	<b>21</b>

Total Hours: 122

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 or MATH 1319 requirement.
  - PHYS 1315 with a grade of "C" or better can satisfy the PHYS 1310 requirement.
  - PHYS 1325 with a grade of "C" or better can satisfy the PHYS 1320 requirement.
  - PHYS 1115 or PHYS 1125 with a grade of "C" or better can satisfy the PHYS 1110 requirement.
  - CI 3315 with a grade of "C" or better can satisfy the CI 3325 requirement

### Science Electives

BIO 1320	Modern Biology I, Molecules, Cells, and Physiology	3
BIO 4305	Nature Study	3
CHEM 1310	Introductory Chemistry for Non-Science Majors	3
GEO 2310	Introduction to Environmental Geography	3
PHYS 1340	Astronomy: Solar System	3

### Advanced POSI Electives from Group II

Group II - American Government		
Code	Title	Hours
POSI 3305	The American Founding	3
POSI 3306	Religion and American Public Life	3
POSI 3307	Parties and Party Politics	3
POSI 3308	Congress and the Legislative Process	3
POSI 3309	The American Presidency	3
POSI 3314	State and Local Government	3
POSI 3319	Metropolitan Politics	3
POSI 3340	Urban Policy and Administration	3
POSI 4301	Politics in Film	3

POSI 4320	Issues and Interest Groups: Power and Pressure in America	3
POSI 4330	Women in Politics	3
POSI 4331	Minority Politics	3
POSI 4336	Campaigns and Elections	3
POSI 4337A	Texas Politics	3
POSI 4337B	The Politics of the American Working Class	3
POSI 4337C	Media and Public Opinion	3
POSI 4345	American Foreign Policy	3
POSI 4362	Government and American Business	3

## Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Generalist, Grades 4-8)

**Minimum required: 129 semester hours**

### General Requirements

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
2. A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
3. All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
4. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
5. Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 2417	4
PHYS 1310	3
PHYS 1110	1
PHYS 1320	3
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
US 1100	1

Sophomore	Hours
BIO 1320	3
BIO 1421	4
ENG 3304	3
ENG 3386	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
HIST 1310	3
HIST 1320	3
HIST 3372	3
MATH 2311	3
MATH 2312	3
MATH 2321	3
PHIL 1305 or 1320	3
	37

Junior	Hours
Advanced level GEO, HIST, POSI, ECO, SOCI or ANTH	3
BIO 3351	3
BIO 4402	4
CHEM 1310	3
MATH 2328	3
MATH 3315	3
PHYS 1340 or 1350	3
Education Core:	6
CI 3310	
CI 3325	
M.S. Field-Based Block One:	6
RDG 3315	
RDG 4310	
	34

Senior	Hours
BIO 4403	4
GEO 4340	3
MATH 4302	3
SPED 4344	3
M.S. Field-Based Block Two:	6
CI 3300	
CI 4300	
EDST 4680 (Student Teaching)	6
	25

Total Hours: 129

# Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Mathematics, Grades 4-8)

**Minimum required: 121 semester hours**

## General Requirements

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
2. A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
3. All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
4. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 2417	4
PHYS 1310 <sup>1</sup>	3
PHYS 1110 <sup>1</sup>	1
PHYS 1320 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
US 1100	1
	<b>33</b>

Sophomore	Hours
BIO 1320	3
BIO 1421	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
HIST 1310	3
HIST 1320	3
MATH 2311	3

MATH 2312	3
MATH 2321 or 2471	3
MATH 3315	3
PHIL 1305 or 1320	3

31

Junior	Hours
CHEM 1341	3
CHEM 1141	1
CHEM 1342	3
CHEM 1142	1
MATH 2331 or 2472	3
MATH 4302	3
MATH 4303	3
SPED 4344	3
Education Core:	6
CI 3310	
CI 3325 <sup>1</sup>	
M.S. Field-Based Block One:	6
RDG 3315	
RDG 4310	

32

Senior	Hours
CI 4350	3
CS 1428 <sup>1</sup>	4
MATH 2328	3
MATH 4311	3
M.S. Field-Based Block Two:	6
CI 3300	
CI 4300	
EDST 4680 (Student Teaching)	6

25

Total Hours: 121

<sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:

- PHYS 1315 with a grade of "C" or better can satisfy the PHYS 1310 requirement.
- PHYS 1325 with a grade of "C" or better can satisfy the PHYS 1320 requirement.
- PHYS 1115 or PHYS 1125 with a grade of "C" or better can satisfy the PHYS 1110 requirement.
- CI 3315 with a grade of "C" or better can satisfy the CI 3325 requirement.
- CS 1308 with a grade of "C" or better can satisfy the CS 1428 requirement.

# Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Mathematics and Science, Grades 4-8)

**Minimum required: 131 semester hours**

## General Requirements

- Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
- A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
- All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
- Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
BIO 1330	3
BIO 1130	1
BIO 1331	3
BIO 1131	1
CHEM 1341	3
CHEM 1141	1
CHEM 1342	3
CHEM 1142	1
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 2417	4
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
US 1100	1

39

Sophomore	Hours
BIO 2410 or 2411	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
HIST 1310	3

HIST 1320	3
MATH 2311	3
MATH 2312	3
MATH 2321 or 2471	3-4
MATH 2331 or 2472	3-4
PHIL 1305 or 1320	3
PHYS 1310	3
PHYS 1110	1
PHYS 1320	3

35

Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
BIO 2450 <sup>1</sup>	4
BIO 4402	4
BIO 4403	4
MATH 2328	3
MATH 3315	3
MATH 4302	3
Education Core:	6
CI 3310	
CI 3325	
M.S. Field-Based Block One:	6
RDG 3315	
RDG 4310	

36

Senior	Hours
BIO 4305 or 4408 <sup>2</sup>	3-4
MATH 4311	3
SPED 4344	3
M.S. Field-Based Block Two:	6
CI 3300	
CI 4300	
EDST 4680 (Student Teaching)	6

21

Total Hours: 131

<sup>1</sup> Students should take BIO 2450 prior to/during the first semester of their Junior Year.

<sup>2</sup> BIO 4305 or BIO 4408 should be taken the long semester immediately prior to student teaching.

# Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Science, Grades 4-8)

**Minimum required: 126 semester hours**

## General Requirements

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
2. A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
3. All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
4. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
5. Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
BIO 1330	3
BIO 1130	1
BIO 1331	3
BIO 1131	1
CHEM 1341	3
CHEM 1141	1
CHEM 1342	3
CHEM 1142	1
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 1315 or 1319	3
Social and Behavioral Sciences	3
US 1100	1
	35
Sophomore	Hours
BIO 2411	4
HIST 1310	3
HIST 1320	3
MATH 2321	3
MATH 2328	3
PHIL 1305 or 1320	3
PHYS 1310	3
PHYS 1110	1

PHYS 1320	3
PHYS 1340 or 1350	3
POSI 2310	3
POSI 2320	3
	35
Junior	Hours
BIO 2450 <sup>1</sup>	4
BIO 3421	4
BIO 4416	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
MATH 3315	3
SPED 4344	3
Education Core:	6
CI 3310	
CI 3325	
M.S. Field-Based Block One:	6
RDG 3315	
RDG 4310	

	33
Senior	Hours
BIO 4305 or 4408 <sup>2</sup>	3-4
BIO 4402	4
BIO 4403	4
M.S. Field-Based Block Two:	6
CI 3300	
CI 4300	
EDST 4680 (Student Teaching)	6
	23

Total Hours: 126

- 1 Students should take BIO 2450 prior to/during the first semester of their Junior Year.
- 2 BIO 4305 or BIO 4408 should be taken the long semester immediately prior to student teaching.

# Bachelor of Science (B.S.) Major in Interdisciplinary Studies (Teacher Certification in Special Education, Grades EC-12)

**Minimum required: 125 semester hours**

## General Requirements

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for



Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).

- A 2.5 Major GPA and a 2.75 Overall GPA are required to graduate.
- All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or higher.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
- Any degree program of 122 hours or more may be considered a five-year program. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
ENG 1310	3
ENG 1320	3
GEO 1310	3
MATH 1315 or 1319 <sup>1</sup>	3
PHYS 1310 <sup>1</sup>	3
PHYS 1110 <sup>1</sup>	1
PHYS 1320 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
US 1100	1
	32

Sophomore	Hours
BIO 1320	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
GS 3310	3
GS 3320	3
HIST 1310	3
HIST 1320	3
MATH 2311	3
MATH 2312	3
PHIL 1305 or 1320	3
SPED 2360	3
Education Core:	6
CI 3325	
CI 4332	
	36

Junior	Hours
CI 3338	3
CI 4350	3
CI 4355	3
SPED 3338	3
SPED 3390	3
SPED 4340	3
SPED 4345	3
SPED 4374	3
ESL Block:	6
CI 3332	
CI 4360	
H.S. Field-Based Block:	6
CI 4343	
RDG 3323	
	36

Senior	Hours
SPED 4381	3
SPED 4389	3
Elem. Field-Based Block:	9
RDG 3315	
RDG 3321	
CI 4325	
Student Teaching:	6
EDST 4380	
EDST 4381	
	21

Total Hours: 125

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 or MATH 1319 requirement.
  - BIO 1421 or BIO 1330 or BIO 1331 with a grade of "C" or better can satisfy the BIO 1320 requirement.
  - PHYS 1315 with a grade of "C" or better can satisfy the PHYS 1310 requirement.
  - PHYS 1325 with a grade of "C" or better can satisfy the PHYS 1320 requirement.
  - PHYS 1115 or PHYS 1125 with a grade of "C" or better can satisfy the PHYS 1110 requirement.

## Minor in Secondary Education

A minor in Secondary Education requires 21 hours, including:

Education Core		
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
Field-Based Block		
CI 4343	Instructional Strategies for the Secondary Teacher	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
RDG 3323	Teaching Reading in the Content Areas	3
Student Teaching		

EDST 4681	Student Teaching 8-12	6
Total Hours		21

**Note** that a minor in Secondary Education is not available with all majors. Students must declare a major in a content area for which teacher certification is available. See the Academic Advisor in the College of your major for more information.

## Minor in Special Education

A minor in Special Education requires 21 hours, including:

SPED 2360	Survey of Exceptionalities	3
SPED 3338	Educating Students with Emotional/Behavioral Disorders	3
SPED 3390	Assessing Students with Disabilities	3
SPED 4344	Educating Students with Mild Disabilities	3
SPED 4345	Teaching Language Arts to Students with Disabilities	3
SPED 4374	Classroom and Behavior Management Strategies for Students with Disabilities	3
SPED 4381	Educating Students with Intellectual and Developmental Disabilities	3
Total Hours		21

Students pursuing a Minor in Special Education, who are not otherwise declared in a teacher certification-seeking degree plan, do not need to be admitted to the Teacher Preparation program. They will, however, encounter prerequisite restrictions when attempting to register for their SPED minor courses since those courses in the registration system list 'Teacher Certification Cohort' as a prerequisite requirement. In order to resolve this, those students will need to request prerequisite overrides each semester for each SPED course that they plan to register for by using the CI Department's Prerequisite Override Request form. For more information contact the Department of Curriculum and Instruction (<http://www.education.txstate.edu/ci>).

## Department of Health and Human Performance

Jowers Center Room A116  
T: 512.245.2561 F: 512.245.8678  
[www.hhp.txstate.edu](http://www.hhp.txstate.edu) (<http://www.hhp.txstate.edu>)

### Exercise and Sports Science

The Bachelor of Exercise and Sports Science (BESS) has several specializations that allow graduates to prepare for careers in education, exercise prescription, health professions, management of exercise programs, and coaching. The BESS with All-Level (EC-12) Teacher Certification in Physical Education prepares graduates to teach in elementary and secondary schools. The BESS with a concentration in Health and Wellness Promotion for Clinical Populations prepares graduates for careers in cardiopulmonary, clinical exercise physiology, and diagnostic testing and programming for cardiac rehabilitation and other special populations. The BESS with a concentration in Pre-Physical Therapy gives students a degree that is well aligned with entrance requirements of advanced study in health care and allied health professions like physical therapy, occupational therapy, orthotics/prosthetics, chiropractics, or physician's assistant. The BESS with

a major in Health and Fitness Management and minor in Business Administration blends exercise science knowledge with the management and leadership skills needed to direct fitness enterprises and wellness/health awareness programs in commercial, corporate, and institutional settings. Advanced course work and field experiences are required for graduation in these programs and depend on maintenance of GPAs above 2.5 or 2.75.

### Athletic Training

Athletic trainers (ATs) are health care professionals who specialize in the prevention, diagnosis, clinical management and rehabilitation of musculoskeletal injuries and medical conditions

Texas State University has a long and rich history with regard to athletic training education. Our Professional Program in Athletic Training was one of the first programs in the United States to be accredited, and has been continuously accredited since 1972. The Commission on Accreditation of Athletic Training Education (CAATE) has accredited our Bachelor of Science degree program in Athletic Training through the 2019-2020 academic year. Admission to the Professional Program in Athletic Training at Texas State University is a competitive process that involves successful completion of all of the requirements associated with a Pre-Athletic Training Program, e.g., 5 specific prerequisite courses, 50 hours of directed observation, a formal written application due April 1st, a formal admission interview on or about May 1st, and a minimum Texas State GPA of 2.75. Admission selections are made once per year, at the end of the academic year. In early June each year, the 20 top-ranked applicants are offered admission for the upcoming year as sophomores in the program. Once admitted to the Athletic Training sophomore cohort, the student will take six long semesters (three years) of supervised clinical education experiences in conjunction with a formal sequence of lecture and laboratory-based courses. Completion of our Bachelor of Science degree in Athletic Training qualifies the student to take the national Board of Certification examination and the Texas Advisory Board of Athletic Trainers state licensure examination. For the most current program information and a comprehensive list of all of the Athletic Training Program admission requirements, please refer to our website, <http://www.hhp.txstate.edu/Divisions/Athletic-Training.html>.

### Health Education

Health promotion is the process of empowering people to make informed decisions to improve personal and community health. The Bachelor of Health and Wellness Promotion provides students the opportunity to become competent in the seven areas of responsibility to improve the practice of health education and promotion. Degree focus areas offered include community health promotion or school health education with the option of becoming a Certified Health Education Specialist or obtaining teacher certification. Professionals in health education and health promotion work in many settings, including community, school (K-12), health care, business/industry, college/university professional preparation programs, and university health services settings.

### Recreational Administration

The Bachelor of Science in Recreational Administration combines classroom learning and on-the-job training in two career tracks: recreation administration and therapeutic recreation. Students study such areas as recreation programming, leadership, marketing, evaluation, administration, and therapeutic recreation. Recreational Administration graduates work in camps, nursing homes, recreation centers, resorts, hospitals, rehabilitation facilities, fitness centers, and state and national parks. The program is nationally accredited in recreation administration

and therapeutic recreation. Graduates of this program are eligible to sit for certification examinations for National Council for Therapeutic Recreation Certification (CTRS) and/or the National Recreation and Park Association's National Certification Board (CPRP).

## PFW Service Courses

Several Texas State degree programs require Physical Fitness and Wellness (PFW) classes to give students knowledge, skills, and health-related benefits of physical activity. All students may elect to take PFW classes to learn new skills/activities, relieve stress, maintain health, and meet others with similar activity interests. The PFW program provides a wide variety of activity classes that include sports, games, indoor or outdoor activities both on and off campus. PFW classes are for students of all ages, skill ranges, and abilities or disabilities. Some PFW classes, however, are restricted to students who are involved in athletics, band, ROTC, and other organizations. Some off-campus classes have an additional activity fee appropriate for the instructor and facilities used. Contact the Director of the PFW Division if you have any questions about PFW classes.

## Admittance to the Teacher Preparation Program

The All-Level Physical Education and All-Level Health Teacher Certifications require formal admittance into the Teacher Preparation Program by the Office of Educator Preparation (p. 204).

## Bachelor of Exercise and Sports Science (B.E.S.S.)

- Major in Exercise and Sports Science (Pre-Physical Therapy Concentration) (p. 193)
- Major in Exercise and Sports Science (Health and Wellness Promotion for Clinical Populations Concentration) (p. 194)
- Major in Exercise and Sports Science (Teacher Certification in Physical Education, Grades EC-12) (p. 195)
- Major in Health and Fitness Management (p. 196)

## Bachelor of Health and Wellness Promotion (B.H.W.P.)

- Major in Health and Wellness Promotion (p. 197)
- Major in Health and Wellness Promotion (Teacher Certification in Health, Grades EC-12) (p. 198)

## Bachelor of Science (B.S.)

- Major in Athletic Training (p. 199)

## Bachelor of Science in Recreational Administration (B.S.R.A.)

- Major in Recreational Administration (p. 201)
- Major in Recreational Administration (Therapeutic Recreation Concentration) (p. 202)

## Minors

- Coaching
- Exercise and Sports Science
- Health and Wellness Promotion

- Recreational Administration
- Second Teaching Field in Health (Grades EC-12)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: AT (p. 181), ESS (p. 183), H ED (p. 186), PFW (p. 188), REC (p. 191)**

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## Courses in Athletic Training (AT)

### AT 1298. Orientation to Athletic Training Education.

Pre-Athletic Training majors will be introduced to the academic and clinical aspects of the CAATE accredited athletic training education program. The course is utilized as part of the rigorous student evaluation process before formal entrance into the athletic training education program

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

### AT 2156. Taping and Bandaging Athletic Injuries.

This course focuses on the use of taping, bracing, and bandaging techniques in the prevention and care of athletic injuries

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### AT 2260. Acute Care of Injuries and Illnesses.

This course will address the knowledge and skills related to the immediate evaluation and specialized care of acute injuries and illnesses common in sports settings. Lectures and laboratory experiences are focused on key aspects of emergency sports health care, including the rapid assessment, resuscitation, packaging and transportation of injured patients. Must be admitted to the Pre-Athletic Training major to enroll

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### AT 2356. Prevention and Care of Athletic Injuries.

This course focuses on the theoretical and practical aspects of the prevention, treatment, and rehabilitation of athletic injuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### AT 2397. Clinical Experience in Athletic Training I.

This course addresses the topics of injury prevention and emergency management, integrated into a clinical education experience designed to assess professional behaviors, knowledge and skills, and clinical proficiency. This course combines didactic with clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. A minimum 2.75 Texas State GPA is required. Must be admitted to the Athletic Training Cohort

**3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 2398. Clinical Experience in Athletic Training II.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. This course combines didactic and clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. Prerequisite: AT 2397 with a grade of "C" or higher and a minimum 2.75 Texas State GPA. Must be admitted to the Athletic Training Cohort

**3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3126. Applied Laboratory of Upper Extremity Injuries.**

This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3326

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3326

**Grade Mode:** Standard Letter

**AT 3128. Applied Laboratory of Lower Extremity Injuries.**

This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3328

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3328

**Grade Mode:** Standard Letter

**AT 3136. Applied Laboratory for Therapeutic Modalities.**

This course provides students with experiences in laboratory and field applications of therapeutic modalities of all athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3336

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3336

**Grade Mode:** Standard Letter

**AT 3146. Applied Laboratory for Therapeutic Exercise and Rehabilitation.**

This course provides students with experiences in laboratory and field applications of therapeutic exercise and rehabilitation of athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3346

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3346

**Grade Mode:** Standard Letter

**AT 3226. Medical Conditions and Disabilities.**

This course focuses on evaluation and management strategies of primarily non-orthopaedic conditions commonly encountered in a physically active population and, to a lesser extent, special populations. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3326. Evaluation Techniques of Upper Extremity Injuries.**

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Co-requisite: AT 3126. Prerequisite: AT 2356, Minimum 2.75 TxState GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3126

**Grade Mode:** Standard Letter

**AT 3328. Evaluation Techniques of Lower Extremity Injuries.**

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Co-requisite: AT 3128. Prerequisites: AT 2356; BIO 2430 or equivalent; Minimum 2.75 TxState GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3128

**Grade Mode:** Standard Letter

**AT 3333. Therapeutic Interventions for Medical and Psychosocial Conditions.**

This course will address the athletic training knowledge and skills required to evaluate and manage common medical conditions and psychosocial concerns found among the physically active. Lecture and laboratory experiences are focused on immediate and advanced care with emphasis on therapeutic interventions and referral. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430 or equivalent. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 3336. Principles and Techniques of Therapeutic Modalities.**

A theoretical and evidence-based approach to the use of therapeutic modalities in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic modalities in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Co-requisite: AT 3136. Prerequisite: Minimum 2.75 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3136

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AT 3346. Therapeutic Exercise and Rehabilitation.**

A theoretical and evidence-based approach to the use of therapeutic exercise in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic exercise in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Corequisite: AT 3146. Prerequisites: AT 3326, AT 3328, PT 3400, Minimum 2.75 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3146

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AT 3358. Clinical Pathopharmacology.**

This course combines pathophysiology, the study of dynamic aspects of disease processes and study of drugs prescribed to prevent, diagnose, cure, or care for disease across the lifespan. Content includes etiology, pathogenesis, clinical presentation, implications for treatment, and pharmacological management. Prerequisite: BIO 2430 or equivalent; or PT 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3497. Clinical Experience in Athletic Training III.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to Athletic Training Majors. Prerequisite: AT 2497 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3498. Clinical Experience in Athletic Training IV.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to students in the Athletic Training Major. Prerequisite: AT 2498 with a grade of "C" or higher. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 4356. Organization and Management of Athletic Training Programs.**

This course addresses the organizational and administrative aspects of athletic training program management. Topics will include, but are not limited to, medical, ethical, legal, personnel and financial management, medical record keeping, facilities, supply requisition and inventory, third-party reimbursement, drug testing and other current professional issues. Prerequisites: AT 3326. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 4360. Internship in Clinical Settings.**

Students will be introduced to the clinical aspects of allied health professions by being assigned to a minimum of two clinical sites. Prerequisite: Instructor consent. Prerequisite: Must be admitted to the Athletic Training major or to the Pre-Physical Therapy Emphasis. Prerequisites: A minimum TXST GPA of 2.75, and AT 3326 and AT 3126; AT 3328 and AT 3128; and AT 3336 and AT 3136

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 4497. Clinical Experience in Athletic Training V.**

This course integrates topics in therapeutic interventions and exercise into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3497 with a grade of "C" or better

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 4498. Clinical Experience in Athletic Training VI.**

This course integrates topics in nutrition, professionalism, and administration into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3498 with a grade of "C" or better

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Exercise and Sports Science (ESS)

**ESS 1100. Lifetime Fitness and Wellness.**

This course introduces students to the concepts of health-related physical fitness. Emphasis is placed on learning how to teach these concepts. Students will design and implement an exercise program for enhancing health-related physical fitness. Restricted to majors or minors in Exercise and Sports Science, Athletic Training, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1128. Aquatic Therapy.**

The course addresses basic principles and concepts of aquatic therapy and aquatic emergency management. This course prepares students for the American Red Cross Basic Water Rescue Certification

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1172. Beginning Field Sports.**

This course prepares students to become proficient instructors of field sports, including softball and soccer. Emphasis is on skill development, instructional practices, peer coaching, rules, terminology, offensive and defensive strategies, team organization, game play, referee skills, skills assessment, and conditioning for field sports. Restricted to majors or minors in Exercise and Sports Science, Coaching, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1175. Beginning Jogging and Conditioning.**

This course presents the proper biomechanics of jogging, safety rules, and conditioning principles relevant to the activity. Course topics include warming-up and cooling-down, hydration, monitoring and modifying intensity, training for road races, and jogging-related injuries. Students will also learn how to train individuals entering into a jogging program. Restricted to majors or minors in Exercise and Sports Science or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 1176. Beginning Tennis, Badminton, and Other Racket Sports.**

This course prepares Exercise and Sports Science majors to be proficient instructors of racket sports, including tennis and badminton. The emphasis is on the fundamentals of racket sports and program development for the beginner. Restricted to majors or minors in Exercise and Sports Science, Health and Fitness Management, or Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1177. Beginning Track and Field.**

This course prepares students to become proficient instructors of track and field. Emphasis is on skill development and instructional practices, rules, terminology, team organization, communication, athlete selection, and event-specific conditioning for track and field. Prerequisite: Major or minor in Exercise and Sports Science or minor in Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1178. Beginning Volleyball and Basketball.**

This course prepares students to become proficient instructors of volleyball and basketball. Emphasis is on skill development, instructional practices, peer coaching, rules, terminology, offensive and defensive strategies, team organization, communication, game play, referee skills, skills assessment, and conditioning for volleyball and basketball. Restricted to majors or minors in Exercise and Sports Science, Health and Fitness Management, or Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1179. Beginning Weight Training.**

This course prepares students to be proficient instructors of all forms of resistance training. Emphasis is on understanding the proper, safe, and effective techniques of weight lifting. Students will learn how to develop resistance-training programs for untrained individuals with a variety of conditions. Restricted to majors or minors in Exercise and Sports Science, Athletic Training, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1192. Beginning Balance and Tumbling.**

This course prepares students as proficient instructors of the basic fundamentals of balance and tumbling. Emphasis is on the teaching of progressions, skills, and routines. Students will learn and practice safe teaching techniques for spotting in selected balance and tumbling skills. Prerequisite: Major seeking All-Level Teacher Certification in Physical Education

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1201. Group Exercise Instructor Training.**

This course is for students interested in becoming certified group exercise instructors. Students will learn how to safely and effectively conduct group exercise classes. Students will be trained to teach a variety of formats, such as high- and low-impact aerobics, step aerobics, kickboxing, yoga, and resistance training. Prerequisite: Major in Health and Fitness Management or consent of the instructor

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 1310. Introduction to Teaching Physical Education.**

This course is designed to provide pre-service physical educators an introduction to fundamental principles of teaching physical education in K-12 settings. Progressive steps in developing a basic understanding of pedagogical skills, physical education curriculum, and professional attributes needed to pursue the teaching profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 2320. Motor Development.**

This course provides the exercise science and physical education student with a knowledge base in the study of changes in motor behavior across the lifespan, the processes that underlie these changes, and factors that affect them. Prerequisite: Major or minor in Exercise and Sports Science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3117. Laboratory in Exercise Physiology.**

In this laboratory course, students perform experiments that highlight the physiological responses to exercise. This course also introduces students to basic techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. Co-requisite: ESS 3317. An overall GPA of 2.5 or higher is required

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3303. Assistant Dive Instructor.**

This course provides students with the technical knowledge necessary to prepare for the Assistant Diver Instructor Scuba Certification. Topics include advanced diving physiology, air station operations, assisting instructors with beginning open-water dive students, and boat diving operations. Prerequisite: PFW 1201

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3304. Divemaster.**

This course provides students with the technical knowledge necessary to prepare for the National Association of Underwater Instructors Divemaster Scuba Certification. Topics include advanced diving physiology, organizing open-water dives, air station operations, assisting instructors with beginning and advanced open-water dive students, and boat diving operations. Prerequisite: Assistant Instructor Certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3317. Exercise Physiology.**

Students learn the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, performance improvement through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. An overall GPA of 2.5 or higher is required. Co-requisite: ESS 3117

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ESS 3320. Biomechanics.**

This course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3321. Teaching Elementary Children Physical Activity.**

This course introduces students majoring in Elementary Education and/or Exercise and Sports Science to physical education knowledge and movement concepts. It provides innovative techniques for incorporating physical activity within the elementary school setting. The course presents theory and then guides the students in applying those theories in a practical way

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3323. Psychosocial Aspects of Exercise and Sport Science.**

This course examines the psychological and social theories and research related to physical activity. Emphasis is on the determinants that influence exercise behavior and sport participation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3325. Applied Assessment of Physical Activity.**

This course is designed to provide students with a theory to practice approach in the assessment of physical activity within the physical education setting. Particular emphasis is placed on empowering students to use relevant and meaningful physical activity assessments in K-12 schools. Prerequisites: ESS 1310 and ESS 2320. Restricted to majors seeking all level Teacher Certification in Physical Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3329. Motor Learning.**

This course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. Prerequisite: Overall GPA of 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3340. Theory and Principles of Coaching.**

This course examines the theories and principles of effective coaching, including philosophy, ethics, strategies, team motivation and organization, coach-athlete relationships, performance analysis, and the administration of facilities, personnel, and contests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4317. Fitness Assessment and Exercise Prescription.**

Students are presented with current information on fitness assessment and exercise programming for individuals of all ages and fitness levels. Emphasis is placed on preparation for multiple certifications offered by relevant professional organizations. Prerequisites: ESS 3117 and ESS 3317; BIO 2430, or BIO 2451 and BIO 2452, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4318. Fitness Assessment and Exercise Prescription Practicum.**

During this 120-hour practicum, students will acquire advanced knowledge and skills associated with appraising health risk, assessing fitness levels, and designing exercise programs for diverse populations through on-line, classroom, and laboratory settings as well as through field-based experiences by working in a variety of exercise venues. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452; ESS 3117 and ESS 3317, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4319. Clinical Exercise Physiology.**

Students gain a thorough understanding of the health appraisal/risk assessment, exercise testing, and exercise programming guidelines for clinical populations. In addition, basic electrocardiography and cardiopulmonary pathology and pharmacology are introduced. Prerequisites: ESS 3117 and ESS 3317; BIO 2430, or BIO 2451 and BIO 2452, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 4320. Resistance Training and Conditioning.**

This course discusses the development and evaluation of training principles and programs for diverse populations. Emphasis is placed on physiological adaptations and mechanical principles related to the application of resistance training. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452; ESS 3317 and ESS 3117, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 4323. Adapted Physical Education.**

This introductory course provides All-Level teacher certification candidates in Exercise and Sports Science with content knowledge on legal mandates, evidence-based practices, and the characteristics of selected disabilities and their considerations when designing meaningful individualized physical activity experiences to meet the students with disabilities in school settings. Prerequisites: ESS 1310, ESS 2320 and 2.75 overall GPA. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ESS 4324. Adapted Physical Activity.**

This course introduces students to the field of adapted physical activity, including sport and leisure for persons with disabilities. This course provides content knowledge on how to instruct physical activities to individuals with unique needs in various settings. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ESS 4337. Independent Study in Exercise and Sports Science.**

This course is for students who are interested in research related to Exercise and Sports Science. Students develop a research study, collect data, and analyze the results. Repeatable for credit with different emphasis. Prerequisites: A minimum GPA of 3.00 and special approval

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**ESS 4340. Internship in Coaching.**

This 220-hour internship provides students with work-related experience. Students will strengthen their coaching-related knowledge, skills, and abilities by observing and shadowing coaches as well as assisting with a range of tasks, including training athletes, managing the facilities, and organizing practices. Prerequisites: completion of all coursework required for the minor in Coaching and special approval

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 4351. Measurement & Evaluation in Exercise and Sports Science.**

This course introduces students to the fundamental principles and techniques of measuring human performance related to Exercise and Sports Science, as well as evaluating and interpreting the results of exercise science and human performance tests in children and adults. Prerequisite: Overall GPA 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4624. Principles and Practices for Teaching Physical Education.**

This course provides students with an in-depth study of theory and curriculum encompassing the design and implementation of developmentally appropriate and culturally responsive physical education programs for children and adolescents. Emphasis is on implementing evidenced-based curricula that promote youths' enjoyment of and participation in lifelong physical activity. Prerequisites: ESS 1310, ESS 2320, ESS 3325 and 2.75 overall GPA

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4660. Exercise and Sports Science Internship.**

In this 400-hour internship, students will apply theoretical health and fitness management principles and concepts to an organizational setting. This course requires students to participate in a health and fitness organization/agency and complete a semester-long planning and evaluation project. Prerequisites: Completion of all other coursework required for the degree, department approval, and an overall GPA of 2.5 or higher. (WI)

**6 Credit Hours. 0 Lecture Contact Hours. 25 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Health Education (H ED)

**H ED 1310. Foundations of Personal Health.**

Course provides an introduction to personal health, acquainting students with the understanding that the decisions they make affect health of self, families, friends, and communities. An emphasis will be placed on health trends and health behaviors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1304

**H ED 1320. Introduction to Health and Wellness Promotion.**

This course addresses concepts essential to understanding the discipline of Health and Wellness Promotion, including competencies and career opportunities for health education specialists in school and community settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 2338. Contemporary Issues in Drug Prevention.**

This course explores the impact of drug use and abuse on society and provides students with a critical perspective of drug-related problems. Course content includes statistics and up-to-date information on current topics in drug issues and drug prevention interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1346

**H ED 2340. Community Health.**

This course acquaints students with issues, trends, and developments, and principles in community health. The course also provides an overview of selected topics, such as epidemiology, community organization, and program planning. Prerequisite or co-requisite: H ED 1320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 2354. Emergency Response and Safety Education.**

This course prepares students to respond to and adequately care for life-threatening and non-life-threatening emergencies. The course includes lecture and laboratory activities. Emphasis is placed on healthy lifestyles and safety practices. Students can earn Cardiopulmonary Resuscitation and Responding to Emergencies certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1306

**H ED 3301. Environmental Health Issues.**

An examination of the ecological impact resulting from contemporary sociopolitical action and its resulting influence on human health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3315. Statistical Analysis and Interpretation in Health and Wellness Promotion.**

This course emphasizes analysis and interpretation of health-related data. Descriptive and inferential statistics (including measures of central tendency and variability, estimation, ANOVA, and regression) will be used to understand factors associated with current health-related issues.

Prerequisites: "C" or better in H ED 1320, H ED 2340, and MATH 1315, MATH 2417 or MATH 2471. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 3321. Health in the School Setting.**

Course offers a foundation in health methods and activities to provide resources for the elementary school teacher. Provides an overview of current school health issues: Coordinated School Health Programs, mental health, personal health, family life, substance abuse, and violence in the school setting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3331. Health Education in the Secondary School Setting.**

Course offers a foundation of health methods and theory with activities to provide resources needed to become successful secondary school educators. The course will provide an overview of current secondary school health issues, such as mental health, personal health, family life, substance abuse, and violence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 3342. Adolescent and School Health Programs.**

Course will provide an understanding of function and scope of the Coordinated School Health Program (CSHP) model. Students investigate how schools function in solving youths' health problems, and focus on how child and adolescent stakeholders and communities are involved in CSHP. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 3348. Prevention of Disease.**

Course provides an overview of the etiology of communicable and chronic diseases. Special emphasis will be on health promotion activities to reduce the incidence of disease in communities and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3350. Consumer Health.**

Course focuses on consumer health and making wise decisions regarding selection of health products and services. Students will learn how to effectively evaluate health information. Special emphasis is placed on becoming a health-literate consumer, understanding legislation, and investigating products and services

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3360. Sexuality Education.**

Course provides a study of sexuality education as a lifelong process of acquiring information and forming healthy attitudes, beliefs, and values regarding sexuality. Students will access information and educational resources for implementing and advocating for sexuality instruction through health courses, sexuality education courses, and programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3374. Interprofessional Service Learning in Global Health.**

This course focuses on principles of international health and wellness promotion with global populations. Emphasis is placed on assessing, planning, implementing, and evaluating prevention strategies. Students explore roles of health educators collaborating with providers of health services to diverse populations. Prerequisite: H ED 2340 with a grade of "B" or better; repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3376. Worksite Health Promotion.**

The purpose of this course is to introduce students to worksite health promotion. The focus of the course will be on planning, implementing, and evaluating worksite health promotion programs. The course will also address other contemporary health issues, policies, and considerations that affect worksite health promotion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4100. Professional Development in Health and Wellness Promotion.**

This one-hour seminar course provides the opportunity for students to obtain a community or clinically-based health promotion internship and to actively participate in health promotion-related professional development activities including conferences, development of resumes and interaction with health professionals. Course to be taken the semester immediately preceding the internship (H ED 4660). Prerequisite: H ED 1320 and H ED 2340 with grades of "C" or better and an Overall 2.5 GPA; Senior Classification required

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4336. Theoretical Foundations of Health and Wellness Promotion.**

Course offers an introduction to research and theories in health and wellness promotion. Special emphasis will be on community health interventions. Students will study theory and practice to understand successful and effective health education interventions. Prerequisites: H ED 1320 and H ED 2340 with grades of C or better, and an Overall GPA of 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4347. Independent Study in Health and Wellness Promotion.**

Designed for undergraduate students who display potential for independent research in health and wellness promotion. Students work individually with faculty to develop an independent research study/project in Health and Wellness Promotion. Open on an individual basis by arrangement with the division chair. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**H ED 4350. Community Health Analysis.**

This is a survey course that focuses on evaluating community health needs; data-gathering techniques; instrument design; using data and statistics; and interpreting, reporting, and applying the findings for program development. Prerequisite: H ED 2340 with C or better. Corequisite: H ED 4340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4640. Community Health Program Planning and Evaluation.**

Course addresses application of professional competencies in health education and promotion programs. Topics include needs assessment, data gathering techniques, instrument design, data and statistics, interpreting, reporting, and application of findings for program development. Cultural competency and communication will also be covered. Prerequisites: H ED 1320, H ED 2340, and H ED 4336 with grades of "C" or better, and an Overall GPA of 2.5 or higher. Senior classification required. (WI)

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 4660. Internship in Health and Wellness Promotion.**

This course involves the application of health education concepts to a community health setting. Students participate in the work of a health organization/agency and complete a semester-long project (480 hours). Prerequisites: Completion of all other courses required for the degree, H ED 4100 and H ED 4640 with grades of "C" or better, an overall GPA of 2.5. In addition, ESS-HCP Concentration: Grades of "C" or better in ESS 4317 and ESS 4319. Departmental Approval required to enroll. (WI)

**6 Credit Hours. 0 Lecture Contact Hours. 18 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Physical Fitness/Wellness (PFW)

**PFW 1101. Lifetime Fitness & Wellness.**

To develop knowledge, skills, and physical activity behaviors associated with personal fitness and wellness

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110A. Beginning Aerobics.**

Beginning Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110B. Intermediate Aerobics.**

Intermediate Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110C. Gymnastics.**

Gymnastics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110D. Balance & Tumbling.**

Balance & Tumbling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110E. Beginning Jogging & Conditioning.**

Beginning Jogging/Conditioning

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110F. Basic Fitness Activities.**

Basic Fitness Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110G. Beginning Weight Lifting.**

Beginning Weight Lifting

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110H. Physique Development.**

Physique Development

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110K. Restricted Fitness Activities.**

Restricted Fitness Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1114A. Principles and Practice of Cross-Training.**

This course is designed for students prepared to undertake advanced physical training to achieve advanced fitness goals. Students perform cross-training, survey the exercise science foundations of cross-training, test and design a personalized evidence-based programs

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**PFW 1125A. Wrestling.**

Wrestling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1130A. Beginning Basketball.**

Beginning Basketball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1130B. Soccer.**

Soccer

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1135A. Water Aerobics.**

Water Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1135B. Aquatic-Conditioning.**

Aquatic-Conditioning

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140A. Football Varsity.**

Football Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140B. Basketball–Men’s Varsity.**

Basketball–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140C. Basketball–Women’s Varsity.**

Basketball–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140D. Track & Field–Men’s Varsity.**

Track &amp; Field–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140E. Track & Field–Women’s Varsity.**

Track &amp; Field–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140F. Volleyball – Women’s Varsity.**

Volleyball – Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140G. Baseball–Men’s Varsity.**

Baseball–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140H. Softball–Women’s Varsity.**

Softball–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1140I. Soccer–Women’s Varsity.**

Soccer–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1149. Strutters.**

Strutters

**1 Credit Hour. 1 Lecture Contact Hour. 9 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1150B. Beginning Bowling.**

Beginning Bowling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1150C. Intermediate Bowling.**

Intermediate Bowling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1150D. Beginning Golf.**

Beginning Golf

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164

**PFW 1150E. Intermediate Golf.**

Intermediate Golf

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150F. Self Defense.**

Self Defense

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150G. Restricted Leisure Activities.**

Restricted Leisure Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154. Leisure/Recreation Activities.**

Leisure/Recreation Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154B. Challenge Course Facilitation.**

This course provides an overview of leadership theories and skill development for indoor/outdoor challenge course activities, with an emphasis on safety management. Students will develop the skills necessary to facilitate both high and low elements of a challenge course

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154C. Backpacking.**

Backpacking

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155A. Beginning Badminton.**

Beginning Badminton

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155B. Beginning Fencing.**

Beginning Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155C. Intermediate Fencing.**

Intermediate Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155D. Advanced Fencing.**

Advanced Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155E. Fencing – Epee.**

Fencing – Epee

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155G. Racquetball.**

Racquetball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155H. Beginning Tennis.**

Beginning Tennis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155I. Intermediate Tennis.**

Intermediate Tennis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155J. Judo.**

Judo

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155K. Beginning Karate.**

Beginning Karate

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155M. Advanced Karate.**

Advanced Karate

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1155N. Pocket Billiards.**

Pocket Billiards

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1160B. Beginning Volleyball.**

Beginning Volleyball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1160C. Intermediate Volleyball.**

Intermediate Volleyball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165A. Golf–Men’s Varsity.**

Golf–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165C. Tennis–Women’s Varsity.**

Tennis–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165D. Golf – Women’s Varsity.**

Golf – Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165E. Varsity Cheerleaders.**

Varsity Cheerleaders

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1180J. Beginning Recreational Dance.**

Beginning Recreational Dance

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** DANC 1122**PFW 1190A. Canoeing.**

Canoeing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190B. Beginning Swimming.**

Beginning Swimming

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190C. Intermediate Swimming.**

Intermediate Swimming

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190F. Beginning Scuba.**

Beginning Scuba

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1201. Advanced Scuba Diving.**

Advanced Scuba Diving

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**PFW 1204. Underwater Photography.**

Underwater Photography

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**PFW 1301. Social and Behavioral Dimensions of Physical Fitness and Wellness.**

Students will explore the role of physical activity in a health and productive society. The course focuses on social and cultural influences on motivation, values and beliefs related to physical activity, as well as the impact of physical activity on individual, community, and population

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

All PFW courses meet two clock hours per week for one semester hour credit unless otherwise designated.

## Courses in Recreational Administration (REC)

**REC 1310. Introduction to Recreation and Leisure Services.**

Introduction to recreation, includes brief historical backgrounds, professional opportunities, present status, past and present leaders. Role of leisure time in our social structure, professional responsibility, familiarization with current issues and trends, and professional literature. Lecture and field trips. A grade of “C” or higher in this course is required to enroll in any upper division Recreational Administration courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 1330. Leisure and Outdoor Recreation.**

This course provides students with an overview of the role the natural world plays in recreation and leisure services. The course will focus on values of outdoor recreation, adventure recreation, environmental impact, and the role of government in the provision and protection of outdoor recreation programs and resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 1370. Introduction to Therapeutic Recreation.**

This course surveys history, philosophy, terminology and professional opportunities in therapeutic recreation. The role of leisure and therapeutic recreation in enhancing quality of life is explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 2330. Leadership in Recreation and Leisure Services.**

Discussion of leadership theories and skill development for indoor-outdoor games and sports. Teaching activities to develop skill in programming various indoor/outdoor recreational settings

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 2335. Recreation Program Development.**

This course introduces students to basic principles and procedures for developing recreation programs that respond to human needs.

This course provides students with opportunities to acquire and utilize recreation programming skills through practical application.

Prerequisites: REC 1310 with a grade of "C" or better, and REC 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1336

**REC 2336. Directed Field Experience in Programming Recreation.**

Students participate in programming and leadership with a selected recreation agency. Online learning modules and communications guide the work and professional reflections. Prerequisite: REC 2335 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 2370. Practices and Interventions in Therapeutic Recreation.**

Students engage in classroom content and service learning to develop knowledge and skills in facilitation techniques used in a variety of therapeutic recreation settings. Prerequisites: REC 1310 and REC 1370 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**REC 3325. Recreation Administration.**

This course covers administrative practices relevant to entry-level professionals in the recreation industry. Topics include foundations of management, decision-making, planning, coordination of resources, and ethics in the public recreation sector. Prerequisite: REC 2335 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 3335. Advanced Recreation Program Development.**

Students will develop advanced program planning skills through the integration of theories and models of program development, consideration of diverse target markets, performing needs assessments, and planning for risk management issues. Students will apply these planning skills through an applied project. Prerequisite: REC 2335 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REC 3340. Design and Maintenance of Recreational Facilities.**

Introduce theories and provide practical experience in the design, development, operation, maintenance, administration of various recreational facilities. Prerequisite: REC 2335

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 3351. Evaluation of Leisure Service Programming.**

Methods, techniques and application of the evaluation process related to a wide variety of leisure service functions: clientele and prospective participants, programs, personnel, facilities, organizations and literature. Prerequisite: REC 2335. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REC 3360. Field Work in Recreation Leadership.**

The student participates at the leadership level in the ongoing work of a selected recreation agency. The work is supervised by an agency representative and a faculty member trained in the recreation field.

Prerequisites: REC 1330, REC 2330, and Departmental Approval

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REC 3370. Assessment and Documentation in Therapeutic Recreation.**

This course introduces students to selecting, utilizing, and interpreting assessment instruments, and to the processes used to document assessment results and client progress used in therapeutic recreation practice. Prerequisites: REC 1370 with a grade of "C" or better, and HIM 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4320. Therapeutic Recreation and People with Psychiatric Conditions.**

Students will gain a theoretical and practical foundation for applying the therapeutic recreation process with persons with psychiatric conditions.

Focus will be on the development of skills necessary to implement evidence-based interventions aimed at behavior change. A grade of "C" or higher in this course is required for enrollment into REC 4680.

Prerequisites: REC 1370, REC 2370, REC 3370, PSY 3300 and PSY 3315, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4330. Entrepreneurial Recreation Management.**

This course provides a study of the scope and the entrepreneurial management of leisure services. The focus will be on financial management related to profit centers including planning, legal liability, record keeping, and revenue management. Prerequisite: REC 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4335. Outdoor Recreation Programming.**

Students apply principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments. Students will demonstrate competencies for Leave No Trace certification. Course is taught in cooperation with the Texas State University–Outdoor Center. Prerequisites: REC 1330 and REC 2335; or Consent of Instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REC 4350. Theories and Methods of Supervision in Recreation and Leisure Services.**

This course presents theories and methods relating to recruitment, selecting, hiring, training, disciplining, and discharging employees. This course also addresses legal issues related to personnel supervision.

Prerequisite: REC 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4370. Principles of Therapeutic Recreation.**

This course will cover the principles of therapeutic recreation services including comprehensive program planning, administrative processes, and issues related to professionalism. Prerequisites: REC 1370, REC 2370, and REC 3370, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4380. Seminar in Recreation.**

This capstone seminar addresses trends in leisure services. Emphasis is on the interactional effects of diverse services, consumers, and environments. Taken in the fall or spring semester immediately preceding enrollment in REC 4680. Departmental approval required. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REC 4680. Internship in Recreation.**

The student participates at the administrative level in the ongoing work of a selected parks and recreation agency. The work is co-supervised by an agency representative trained in the recreation field. Prerequisites: In addition to completion of all REC classes on degree plan and Departmental Approval, completion with a 'C' or better in REC 1370, REC 2370, REC 3370, REC 4320 and REC 4370 for Therapeutic Recreation majors or in REC 2335, REC 2336, REC 3325 and REC 4380 for Recreational Administration majors

**6 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Exercise and Sports Science (B.E.S.S.) Major in Exercise and Sports Science (Pre-Physical Therapy Concentration)

**Minimum required: 120 semester hours**

### General Requirements

1. This 120 credit-hour degree program blends rigorous basic sciences, Athletic Training, and exercise science courses relevant to physical rehabilitation. The main focus of this pre-professional program is to combine the prerequisite coursework required for entrance to a graduate-level allied health program with quality support courses from the Athletic Training and Exercise and Sports Science programs. This degree program will also prepare students for several other graduate programs such as: entry-level Athletic Training, Occupational Therapy, Chiropractic, Physician Assistant, Orthotic/Prosthetic, and Exercise Physiology.
2. Graduate-level programs may require additional or modified prerequisite coursework for admission not included in this program. Students are ultimately responsible for knowing and completing prerequisite requirements for graduate programs of interest. Completion of this program does not guarantee admission to a graduate program in Physical Therapy.
3. Students in the Pre-Physical Therapy program must establish and maintain at least a 2.75 Texas State GPA in order to enroll in the following courses:
 

AT 3326	Evaluation Techniques of Upper Extremity Injuries	3
AT 3126	Applied Laboratory of Upper Extremity Injuries	1
AT 3328	Evaluation Techniques of Lower Extremity Injuries	3
AT 3128	Applied Laboratory of Lower Extremity Injuries	1
AT 3336	Principles and Techniques of Therapeutic Modalities	3
AT 3136	Applied Laboratory for Therapeutic Modalities	1
AT 3346	Therapeutic Exercise and Rehabilitation	3
AT 3146	Applied Laboratory for Therapeutic Exercise and Rehabilitation	1
4. Students are advised to follow the approved 4-year academic plan provided by the College of Education Advising Center. Students are advised to complete AT 3326/AT 3126 prior to enrolling in AT 3328/AT 3128. Students should not complete both AT 3326/AT 3126 and AT 3328/AT 3128 in the same semester. Students should enroll in AT 3336/AT 3136 after AT 3326/AT 3126 and AT 3328/AT 3128 have been completed.
5. A 2.75 Texas State GPA is required to graduate.
6. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100 All others will be exempt from taking this course, but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
AT 2356	3
BIO 1330	3



BIO 1130	1
MATH 1315	3
CHEM 1341	3
CHEM 1141	1
ENG 1310	3
ENG 1320	3
HIM 2360	3
PHIL 1305 or 1320	3
PSY 1300	3
US 1100	1

30

Sophomore	Hours
BIO 2430	4
AT 3326	3
AT 3126	1
CHEM 1342	3
CHEM 1142	1
COMM 1310	3
ESS 3317	3
ESS 3117	1
ESS 3320	3
ESS 3329	3
POSI 2310	3
POSI 2320	3
SOCI 1310	3

34

Junior	Hours
AT 3328	3
AT 3128	1
AT 3336	3
AT 3136	1
AT 3358	3

Select one of the following: 3

ART 2313	
DAN 2313	
MU 2313	
TH 2313	

ESS 1128	1
ESS 1179	1
HIST 1310	3
NUTR 3362 or 3364	3
PHYS 1315	3
PHYS 1115	1
PT 3400	4

30

Senior	Hours
AT 3346	3
AT 3146	1
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	

ENG 2340	
ENG 2359	
ENG 2360	
ESS 4317	3
HIST 1320	3
Select one of the following:	3
HP 3302	
PSY 2301	
SOCI 3307	
PHYS 1325	3
PHYS 1125	1
PSY 3300 or 3315	3
AT 4360 <sup>1</sup>	3
	26

Total Hours: 120

<sup>1</sup> AT 4360 has the following pre-requisites for enrollment: minimum 2.75 Texas State GPA; AT 3326 AT 3126; AT 3328, AT 3128, and AT 3336, AT 3136. Therefore, students are advised to take AT 4360 in their last semester of coursework.

## Bachelor of Exercise and Sports Science (B.E.S.S.) Major in Exercise and Sports Science (Health and Wellness Promotion for Clinical Populations Concentration)

**Minimum required: 120 semester hours**  
**General Requirements**

1. This degree program is designed to prepare graduates for study towards a Master's degree in Exercise Physiology, Biomechanics, or a similar field of study. Completion of this degree does not guarantee admission to a graduate program.
2. This degree program can lead to careers in cardiopulmonary, clinical exercise, and diagnostic testing and programming for cardiac rehabilitation and other special populations. Additional requirements may be necessary to enter these fields.
3. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
AT 2356	3
MATH 1315 <sup>1</sup>	3
BIO 2430 <sup>1</sup>	4
COMM 1310	3
ENG 1310	3
ENG 1320	3
ESS 1100	1
ESS/PFW Major Activity <sup>4</sup>	1
ESS/PFW Major Activity <sup>4</sup>	1

ESS/PFW Major Activity <sup>4</sup>	1
H ED 1320	3
POSI 2310	3
POSI 2320	3
US 1100	1
	33
<b>Sophomore</b>	<b>Hours</b>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
ESS 1179	1
H ED 2340	3
HIST 1310	3
HIST 1320	3
Life and Physical Sciences <sup>3</sup>	4
Life and Physical Sciences <sup>3</sup>	4
NUTR 3362	3
PHIL 1305 or 1320	3
Social and Behavioral Sciences	3
	33
<b>Junior</b>	<b>Hours</b>
Clinical Elective <sup>5</sup>	3
Clinical Elective <sup>5</sup>	3
ENG 3303	3
ESS 3317	3
ESS 3117	1
ESS 3320	3
ESS 3329	3
ESS 4320	3
ESS 4351	3
H ED 4336	3
Life and Physical Sciences <sup>3</sup>	4
	32
<b>Senior</b>	<b>Hours</b>
ESS 4317	3
ESS 4318	3
ESS 4319	3
H ED 4100	1
H ED 4640	6
H ED 4660 <sup>2</sup>	6
	22
Total Hours:	120

<sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:

- MATH 1319 or MATH 2417 or MATH 2471 can satisfy the MATH 1315 requirement.
- BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.

<sup>2</sup> Students must complete H ED 4660. A 2.5 Overall GPA is required to enroll in this internship. All other coursework must be completed prior to the internship.

<sup>3</sup> Life and Physical Sciences courses must be chosen from: BIO 1330, BIO 1130, CHEM 1341, CHEM 1141, CHEM 1342, CHEM 1142, PHYS 1315, PHYS 1115, PHYS 1325, and PHYS 1125. Students must take 12 hours (i.e. three courses and three corresponding labs).

<sup>4</sup> ESS/PFW Major Activity courses must be chosen from: ESS 1172, ESS 1175, ESS 1176, ESS 1178, PFW 1110A, PFW 1110B, PFW 1110E, PFW 1110F, PFW 1110G, PFW 1130B, PFW 1135B, PFW 1155A, PFW 1155G, PFW 1155H, PFW 1155I, PFW 1160B, PFW 1160C, PFW 1190B, and PFW 1190C.

<sup>5</sup> Clinical Elective courses must be chosen from: AT 3358, ESS 1310, ESS 4324, H ED 3348, HIM 2360, and NUTR 3364.

## Bachelor of Exercise and Sports Science (B.E.S.S.) Major in Exercise and Sports Science (Teacher Certification in Physical Education, Early Childhood through Grade 12)

**Minimum required: 125 semester hours**

### General Requirements

1. Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
2. A Minor or Second Teaching Field is required and must not be a Minor in Exercise and Sports Science or a Minor in Coaching Athletics. Courses toward a Second Teaching Field are recommended to improve job opportunities. The degree plan below is based on an 18-hour Minor or Second Teaching Field. Certain Minors and Second Teaching Fields may increase the total number of credit hours required for degree completion. Consult an academic advisor for a list of available Second Teaching Fields and recommended Minors.
3. A 2.5 Major GPA and an Overall GPA of 2.75 is required to graduate. If declared, a 2.5 GPA is required within the Second Teaching Field and a 2.0 is required within the Minor to graduate.
4. All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or better.
5. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course, but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
6. To complete the predetermined sequence of courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
ESS 1100	1
ESS 1310	3
MATH 1315 <sup>1</sup>	3
Life and Physical Sciences	3
Life and Physical Sciences	3
PHIL 1305 or 1320	3
POSI 2310	3
POSI 2320	3
US 1100	1
	32

Sophomore	Hours
AT 2356	3
BIO 2430 <sup>1</sup>	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
ESS 1179	1
ESS 2320	3
ESS/PFW Major Activity Team Sports <sup>2</sup>	1
ESS/PFW Major Activity Individual Sports <sup>2</sup>	1
ESS/PFW Major Activity Conditioning <sup>2</sup>	1
HIST 1310	3
HIST 1320	3
Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
Social and Behavioral Sciences	3
	35

Junior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
ESS 3320	3
ESS 3325	3
ESS 3317	3
ESS 3117	1
ESS 3329	3
Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
Education Core:	6

CI 3325	
CI 4332	
H.S. Field-Based Block:	9
CI 4343	
CI 4370	
RDG 3323	
	37

Senior	Hours
ESS 4323	3
ESS 4624	6
ESS Advanced Elective <sup>3</sup>	3
Minor or Second Teaching Field	3
EDST 4380	3
EDST 4381	3
	21

Total Hours: 125

<sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:

- MATH 1319 or MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 requirement.
- BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.

<sup>2</sup> ESS/PFW Activity. Students are required to take three ESS/PFW Major Activity courses in the following specific areas: Team Sports, Individual Sports, and Conditioning.

- Team Sports course must be chosen from: ESS 1172, ESS 1177, and ESS 1178.
- Individual Sports course must be chosen from: ESS 1128, ESS 1176, and ESS 1192.
- Conditioning course must be chosen from: ESS 1175, PFW 1110A, PFW 1110B, PFW 1110F, PFW 1135A, PFW 1135B, and PFW 1190B.

<sup>3</sup> ESS Advanced Elective course must be chosen from: ESS 3321, ESS 3323, ESS 3340, and ESS 4337.

## Bachelor of Exercise and Sports Science (B.E.S.S.) Major in Health and Fitness Management

**Minimum required: 120 semester hours**  
**General Requirements**

1. Students must complete a Minor in Business Administration, which includes:		
ECO 2301	Principles of Economics	3
ACC 2301	Accounting in Organizations and Society	3
Select 12 elective hours from the following:		12
BLAW 2361	Legal Environment of Business	
CIS 3317	E-Business	
FIN 3325	Personal Financial Management	
MGT 3303	Management of Organizations	
MKT 3343	Principles of Marketing	
Total Hours		18

An Overall GPA of 2.0 or higher is required to enroll in Advanced Business courses. A 2.0 GPA in the Minor is required to graduate.

2. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
AT 2356	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
ESS 1201	2
Life and Physical Sciences <sup>3</sup>	4
Life and Physical Sciences <sup>3</sup>	4
MATH 1319 <sup>1</sup>	3
POSI 2310	3
POSI 2320	3
US 1100	1
	32
Sophomore	Hours
ACC 2301 <sup>1</sup>	3
BIO 2430 <sup>1</sup>	4
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
ECO 2301 <sup>1</sup>	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
ESS 1100	1
ESS 1179	1
ESS/PFW Major Activity <sup>6</sup>	1
ESS/PFW Major Activity <sup>6</sup>	1
ESS/PFW Major Activity <sup>6</sup>	1
HIST 1310	3
HIST 1320	3
PHIL 1305 or 1320	3
PSY 1300	3
	33
Junior	Hours
ESS 3317	3
ESS 3117	1
ESS 3320	3
ESS 3329	3
ESS 4320	3

ESS 4351	3
H ED 3376	3
Major Elective <sup>4</sup>	3
Major Elective <sup>4</sup>	3
Minor Elective	3
Minor Elective	3
Support Elective <sup>5</sup>	3
	34
Senior	Hours
ESS 4317	3
ESS 4318	3
ESS 4319	3
Minor Elective	3
Minor Elective	3
ESS 4660 <sup>2</sup>	6
	21

Total Hours: 120

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:

- MATH 1315 or MATH 2417 or MATH 2471 can satisfy the MATH 1319 requirement.
- BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.
- ACC 2361 and ACC 2362 can be used together to satisfy the ACC 2301 requirement.
- ECO 2314 and ECO 2315 can be used together to satisfy the ECO 2301 requirement.

- <sup>2</sup> Students must complete ESS 4660. A 2.5 Overall GPA is required to enroll in the internship. All other coursework must be completed prior to the internship.

- <sup>3</sup> Life and Physical Sciences courses must be chosen from: BIO 1330, BIO 1130, CHEM 1341, CHEM 1141, CHEM 1342, CHEM 1142, PHYS 1315, PHYS 1115, PHYS 1325, and PHYS 1125.

- <sup>4</sup> Major Elective courses must be chosen from: ESS 1310, ESS 3321, ESS 3323, ESS 3340, ESS 4324, and REC 4330.

- <sup>5</sup> Support Elective course must be chosen from: NUTR 3362, NUTR 3364, PSY 3336, PSY 3350, and PSY 3361.

- <sup>6</sup> ESS/PFW Major Activity courses must be chosen from: ESS 1172, ESS 1175, ESS 1176, ESS 1178, PFW 1110A, PFW 1110B, PFW 1110E, PFW 1110F, PFW 1110G, PFW 1130B, PFW 1135B, PFW 1155A, PFW 1155G, PFW 1155H, PFW 1155I, PFW 1160B, PFW 1160C, PFW 1190B, and PFW 1190C.

## Bachelor of Health and Wellness Promotion (B.H.W.P.) Major in Health and Wellness Promotion

**Minimum required: 120 semester hours**

### General Requirements

1. This degree program prepares graduates to take the national examination to obtain the Certified Health Education Specialist (CHES) through the National Commission for Health Education Credentialing.

- A Minor is required and must not be a Minor in Health and Wellness Promotion. A 2.0 GPA is required in the Minor in order to graduate. The degree plan below is based on an 18-hour Minor. Certain Minors may increase the total number of credit hours required for degree completion. Consult an academic advisor for a list of recommended Minors.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
CIS 1323 or CS 1308	3
COMM 1310	3
ENG 1310	3
ENG 1320	3
H ED 1320	3
MATH 1315 <sup>1</sup>	3
Life and Physical Sciences	3
Life and Physical Sciences	3
POSI 2310	3
POSI 2320	3
US 1100	1
	31

Sophomore	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
BIO 2430 <sup>1</sup>	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
H ED 2340	3
H ED Elective <sup>3</sup>	3
H ED Elective <sup>3</sup>	3
HIST 1310	3
HIST 1320	3
Minor	3
PHIL 1305 or 1320	3
PSY 1300	3
	34

Junior	Hours
ENG 3303	3
H ED 3315 <sup>1</sup>	3
H ED 3350	3
H ED 4336	3
H ED Elective <sup>3</sup>	3

H ED Elective <sup>3</sup>	3
MGT 3303 or MKT 3343	3
Minor	3
Minor	3
Minor	3
PSY 3350	3

Senior	Hours
H ED 4100 <sup>2</sup>	1
H ED 4640	6
Minor	3
Minor	3
NUTR 3362 or 3364	3
H ED 4660 <sup>2</sup>	6
	22

Total Hours: 120

<sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:

- MATH 2417 or MATH 2471 can satisfy the MATH 1315 requirement.
- BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.
- HP 3302 or HP 3325 can satisfy the H ED 3315 requirement.

<sup>2</sup> Students must complete H ED 4660. A 2.5 Overall GPA is required to enroll in the internship. H ED 4100 Professional Development, should be taken the semester immediately preceding the internship. All other coursework must be completed prior to the internship.

<sup>3</sup> H ED Electives must be chosen from: H ED 1310, H ED 2338, H ED 3301, H ED 3348, H ED 3360, H ED 3374, H ED 3376, and H ED 4347.

## Bachelor of Health and Wellness Promotion (B.H.W.P.) Major in Health and Wellness Promotion (Teacher Certification in Health, Early Childhood through Grade 12)

### Minimum required: 121 semester hours General Requirements

- Students must apply and be admitted to the Teacher Preparation Program in order to enroll in Block coursework and Student Teaching in the Junior and Senior year. Refer to the requirements for Admittance to the Teacher Preparation Program through the Office of Educator Preparation (p. 204).
- A Minor or Second Teaching Field is required and must not be a Minor in Exercise and Sports Science or a Minor in Coaching. Courses toward a Second Teaching Field are recommended to improve job opportunities. The degree plan below is based on an 18-hour Minor or Second Teaching Field. Certain Minors and Second Teaching Fields may increase the total number of credit hours required for degree completion. Consult an academic advisor for a list of available Second Teaching Fields and recommended Minors.



- A 2.5 Major GPA and an Overall GPA of 2.75 is required to graduate. If declared, a 2.5 GPA is required within the Second Teaching Field and a 2.0 is required within the Minor to graduate.
- All Major as well as Pedagogy and Professional Responsibility courses must be completed with a grade of "C" or better.
- Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
H ED 1310	3
H ED 1320	3
MATH 1315 <sup>1</sup>	3
Life and Physical Sciences	3
Life and Physical Sciences	3
PFW	1
POSI 2310	3
POSI 2320	3
US 1100	1
	32

Sophomore	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
BIO 2430 <sup>1</sup>	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
H ED 2338	3
H ED 2340	3
HIST 1310	3
HIST 1320	3
Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
PFW	1
PHIL 1305 or 1320	3
Social and Behavioral Sciences	3
	35

Junior	Hours
H ED 3342	3
H ED Advanced Elective <sup>2</sup>	3
H ED Advanced Elective <sup>2</sup>	3
H ED Advanced Elective <sup>2</sup>	3

Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
Minor or Second Teaching Field	3
NUTR 3362 <sup>1</sup>	3
Education Core:	6
CI 3325	
CI 4332	
	30

Senior	Hours
H ED 3321	3
H ED Advanced Elective <sup>2</sup>	3
Minor or Second Teaching Field	3
H.S. Field-Based Block:	9
CI 4343	
CI 4370	
RDG 3323	
Student Teaching:	6
EDST 4380	
EDST 4381	
	24

Total Hours: 121

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 with a grade of "C" or better can satisfy the MATH 1315 requirement.
  - BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.
  - NUTR 2360 can satisfy the NUTR 3362 requirement.

- <sup>2</sup> H ED Advanced Electives must be chosen from: H ED 3301, H ED 3348, H ED 3350, H ED 3360, and H ED 4336.

## Bachelor of Science (B.S.) Major in Athletic Training

### Minimum required: 120 semester hours General Requirements

- The Athletic Training Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Students desiring admission must first declare the Athletic Training major and complete the preliminary requirements for the Athletic Training major at Texas State University in order to become eligible to be admitted to the Athletic Training Program cohort. Once per year, in June, following the completion of a year-long competitive admissions process, the top 20 ranked applicants are offered admission to the Athletic Training Program cohort. For more information, please refer to <http://www.hhp.txstate.edu/Divisions/Athletic-Training.html>.
- Students admitted to the Athletic Training Program cohort must be committed to taking the Board of Certification's national examination, as well as the Texas Advisory Board of Athletic Trainers' state licensure examination during the last semester prior to graduation.
- To be considered as a candidate for admission to the Athletic Training Program cohort, students must complete AT 1298, AT 2156, AT 2260, AT 2356, and BIO 2430 with grades of B or better, and:

- Participate in the competitive admission process that includes the five prerequisite courses mentioned above, a completed application (due annually on April 1), and an admissions interview in early May.
  - Establish and maintain a minimum Texas State GPA of 2.75.
  - Complete 50 hours of directed Athletic Training observation as part of AT 1298 – Orientation to Athletic Training Education.
  - Hold current Emergency Cardiac Care (ECC) certification in CPR/AED at the Professional Rescuer level.
4. The six-component objective formula used to rank applicants for admission to the AT Program cohort is available to view at <http://www.hhp.txstate.edu/Divisions/Athletic-Training/Undergraduate-Program>.
  5. The required Technical Standards for the AT Program are available at the department website listed, in the AT 1298 Policy and Procedures Manual, and from the program director.
  6. Students accepted into the AT Program cohort must provide current immunization records to the Texas State Student Health Center.
  7. Students must maintain at least a Texas State GPA of 2.75 at all times while pursuing the degree, and in order to graduate.
  8. The Athletic Training clinical education requirement at Texas State involves the completion of six long-semester courses over a three-year period that can only be completed at Texas State University. Each of the six clinical education courses in our program involve 2 contact hours per week with a classroom instructor and approximately 20 contact hours of supervised clinical education experiences at various on-campus or off-campus clinical sites.
  9. Students are advised to follow the approved 4-year academic plan provided by the College of Education Advising Center. Students are advised to complete AT 3326/AT 3126 prior to enrolling in AT 3328/AT 3128. Students should not complete both AT 3326/AT 3126 and AT 3328/AT 3128 in the same semester. Students should enroll in AT 3336/AT 3136 after AT 3326/AT 3126 and AT 3328/AT 3128 have been completed.
  10. Students contemplating transfer should expect to spend four (4) years at Texas State in order to complete the Athletic Training major.
  11. Upon completion of the degree, the graduate will be qualified to take the Board of Certification's national examination and the Texas Advisory Board of Athletic Trainers' state licensure exam.
  12. Athletic Training does not constitute a teaching field. If you are interested in an All-Level Physical Education Teacher Certification, contact the College of Education Undergraduate Advising Center.
  13. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.
  14. To complete the predetermined sequence or courses in 4 years, students will most likely need to attend summer sessions.

Freshman	Hours
AT 1298	2
AT 2156	1
AT 2260	2
AT 2356	3
Select one of the following options:	4
Option 1:	

BIO 1330	
BIO 1130	
Option 2:	
BIO 1421	
BIO 2430 <sup>1</sup>	4
COMM 1310	3
ENG 1310	3
ENG 1320	3
ESS 1128	1
MATH 1315 or 1319 <sup>1</sup>	3
PSY 1300	3
US 1100	1

33

Sophomore	Hours
AT 2397	3
AT 2398	3
AT 3326	3
AT 3126	1
AT 3328	3
AT 3128	1
AT 3336	3
AT 3136	1
AT 3333	3
ESS 3320	3
NUTR 3362 or 3364	3

27

Junior	Hours
AT 3346	3
AT 3146	1
AT 3497	4
AT 3498	4
ESS 1179	1
ESS 3317	3
ESS 3117	1
ESS 4351	3
HIST 1310	3
HIST 1320	3
PT 3400	4

30

Senior	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
AT 4356	3
AT 4497	4
AT 4498	4
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	

ENG 2340	
ENG 2359	
ENG 2360	
PHIL 1305 or 1320	3
PHYS 1315	3
PHYS 1115	1
POSI 2310	3
POSI 2320	3
	<b>30</b>

Total Hours: 120

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 2417 or MATH 2471 can satisfy the MATH 1315 or MATH 1319 requirement.
  - BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.

## Bachelor of Science in Recreational Administration (B.S.R.A.) Major in Recreational Administration

**Minimum required: 120 semester hours**

### General Requirements

1. Graduates are prepared to take the national examination to obtain the Certified Park and Recreation Professional certification endorsed by the National Recreation and Park Association.
2. Students must complete 20 elective hours, 12 of which must be advanced. Consult with an academic advisor for recommended electives.
3. Students should be aware that some REC courses may only be offered once a year, during a Fall or Spring semester.
4. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
MATH 1315 <sup>1</sup>	3
Life and Physical Sciences	3
Life and Physical Sciences	3
PSY 1300 or SOCI 1310	3
REC 1310	3
REC 1330	3
REC 2330	3
US 1100	1
	<b>31</b>

Sophomore	Hours
Select one of the following:	3
ART 2313	

DAN 2313	
MU 2313	
TH 2313	
CS 1308 or CIS 1323 <sup>1</sup>	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
HIST 1310	3
HIST 1320	3
PHIL 1305 or 1320	3
POSI 2310	3
POSI 2320	3
REC 1370	3
REC 2335 <sup>3</sup>	3
REC 2336 <sup>3</sup>	3
	<b>33</b>

Junior	Hours
Advanced Elective	3
Advanced Elective	3
Advanced Elective	3
Advanced Elective	3
Select one of the following:	3
COMM 2315	
COMM 2330	
COMM 2338	
TH 3370	
Select one of the following:	3
MC 3343	
MC 3367	
MC 4312	
REC 3325 <sup>3</sup>	3
REC 3335	3
REC 3340	3
REC 3351	3
REC 4330	3
	<b>33</b>

Senior	Hours
Elective	3
Elective	3
Elective	2
Select one of the following:	3
H ED 1310	
H ED 2338	
H ED 3321	
REC 4350	3
REC 4380 <sup>3</sup>	3

REC 4680 <sup>2</sup>	6
	23

Total Hours: 120

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 1319 or MATH 2471 can satisfy the MATH 1315 requirement.
  - CS 1428 can satisfy the CS 1308 or CIS 1323 requirement.

<sup>2</sup> All other coursework must be completed prior to students enrolling in the required internship, REC 4680.

<sup>3</sup> Students must earn grades of "C" or better in REC 2335, REC 2336, REC 3325 and REC 4380 as partial fulfillment of gaining Departmental Approval to enroll in REC 4680.

# Bachelor of Science in Recreational Administration (B.S.R.A.) Major in Recreational Administration (Therapeutic Recreation Concentration)

**Minimum required: 120 semester hours**

## General Requirements

1. Graduates are eligible to sit for examinations for the National Council for Therapeutic Recreation Certification (NCTRC) and the Certified Parks and Recreation Professional (CPRP)
2. Students should be aware that some REC courses may only be offered once a year, during a Fall or Spring semester.
3. Students entering Texas State with fewer than 16 hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course but will be required to earn an additional free elective, if needed, to reach the 120 minimum total hour requirement for the awarding of a degree.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Life and Physical Sciences	3
Life and Physical Sciences	3
MATH 1315 <sup>1</sup>	3
PHIL 1305 or 1320	3
PSY 1300	3
REC 1310 <sup>3</sup>	3
REC 2330	3
US 1100	1
	31

Sophomore	Hours
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	

HIM 2360	3
HIST 1310	3
HIST 1320	3
POSI 2310	3
POSI 2320	3
PSY 3300	3
PSY 3315	3
REC 1370	3
REC 2335	3
REC 2370 <sup>3</sup>	3
	33

Junior	Hours
BIO 2430 <sup>1</sup>	4
CS 1308 or CIS 1323 <sup>1</sup>	3
Elective	1
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
Select two of the following:	6
REC 1330	
REC 3340	
REC 4330	
REC 2336	3
REC 3325	3
REC 3351	3
REC 3370 <sup>3</sup>	3
REC 4350	3
	32

Senior	Hours
NCTRC Eligibility Course	3
NCTRC Eligibility Course	3
NCTRC Eligibility Course	3
REC 4320 <sup>3</sup>	3
REC 4370 <sup>3</sup>	3
REC 4380 <sup>3</sup>	3
REC 4680 <sup>2</sup>	6
	24

Total Hours: 120

- <sup>1</sup> While not recommended, previously completed courses in some areas can be substituted for the following degree requirements:
- MATH 1319 or MATH 2417 or MATH 2471 can satisfy the MATH 1315 requirement.
  - BIO 2451 and BIO 2452 can be used together to satisfy the BIO 2430 requirement.
  - CS 1428 can satisfy the CS 1308 or CIS 1323 requirement.

<sup>2</sup> All other coursework must be completed prior to students enrolling in the required internship, REC 4680. Students should be aware that this internship must be completed during a Fall or Spring semester – it cannot be completed in a Summer semester.

<sup>3</sup> Students must earn grades of "C" or better in each TR sequence course (REC 1370, REC 2370, REC 3370, REC 4320, REC 4370) as well as in REC 4380 as partial fulfillment of requirements to gain Departmental Approval to enroll in REC 4680.

### NCTRC Eligibility Courses

PSY 3312	Adolescent Psychology	3
PSY 3313	Psychology of Adulthood and Aging	3
PSY 3350	Cognitive Behavioral Therapies	3
PSY 3361	Health Psychology	3
SOCI 1310	Introduction to Sociology	3
SOCI 3300	Principles of Sociology	3
SOCI 3338	Family Problems	3
SOCI 3343	Criminology	3
SOCI 3347	Juvenile Delinquency	3
SOCI 3383	Aging and Society	3
SOCI 3384	The Sociology of Death and Dying	3
SPED 2360	Survey of Exceptionalities	3
SPED 3338	Educating Students with Emotional/Behavioral Disorders	3
SPED 4344	Educating Students with Mild Disabilities	3
SPED 4381	Educating Students with Intellectual and Developmental Disabilities	3
ESS 3320	Biomechanics	3
ESS 3329	Motor Learning	3

## Minor in Coaching

A minor in Coaching requires 22 hours and is designed to provide basic expertise in coaching based on the NASPE national standards for sport coaches. Students receive field experience through a supervised internship. The minor is not available to students majoring in Exercise and Sports Science as well as Health and Fitness Management.

AT 2356	Prevention and Care of Athletic Injuries	3
Select three of the following:		3
ESS 1172	Beginning Field Sports	
ESS 1176	Beginning Tennis, Badminton, and Other Racket Sports	
ESS 1177	Beginning Track and Field	
ESS 1178	Beginning Volleyball and Basketball	
ESS 3117	Laboratory in Exercise Physiology	1
ESS 3317	Exercise Physiology	3
ESS 3320	Biomechanics	3
ESS 3340	Theory and Principles of Coaching	3
ESS 4320	Resistance Training and Conditioning	3
ESS 4340	Internship in Coaching	3
Total Hours		22

## Minor in Exercise and Sports Science

A minor in Exercise and Sports Science requires 25 hours. This minor is not available to students who major in Exercise and Sports Science as well as Health and Fitness Management.

AT 2356	Prevention and Care of Athletic Injuries	3
BIO 2430	Human Physiology and Anatomy	4

ESS 1100	Lifetime Fitness and Wellness	1
ESS 1179	Beginning Weight Training	1
ESS 3117	Laboratory in Exercise Physiology	1
ESS 3317	Exercise Physiology	3
ESS 3320	Biomechanics	3
ESS 3321	Teaching Elementary Children Physical Activity	3
ESS 4324	Adapted Physical Activity	3
ESS 4351	Measurement & Evaluation in Exercise and Sports Science	3
Total Hours		25

## Minor in Health and Wellness Promotion

A minor in Health and Wellness Promotion requires 18 hours. Eligibility for the Certified Health Education Specialist (CHES) certification requires an additional 7 hours from upper-level (3000 or higher) health education (H ED) courses.

H ED 1320	Introduction to Health and Wellness Promotion	3
H ED 2340	Community Health	3
H ED 3350	Consumer Health	3
H ED 4336	Theoretical Foundations of Health and Wellness Promotion	3
H ED 4640	Community Health Program Planning and Evaluation	6
Total Hours		18

## Minor in Recreational Administration

A minor in Recreational Administration requires 18 hours.

REC 1310	Introduction to Recreation and Leisure Services	3
REC 2330	Leadership in Recreation and Leisure Services	3
REC 2335	Recreation Program Development	3
REC 3325	Recreation Administration	3
Select 6 hours of the following:		6
REC 1330	Leisure and Outdoor Recreation	
REC 3340	Design and Maintenance of Recreational Facilities	
REC 3351	Evaluation of Leisure Service Programming	
REC 4330	Entrepreneurial Recreation Management	
REC 4350	Theories and Methods of Supervision in Recreation and Leisure Services	
Total Hours		18

## Second Teaching Field in Health (Grades EC-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Health, the requirements are:

H ED 1310	Foundations of Personal Health	3
H ED 1320	Introduction to Health and Wellness Promotion	3
H ED 2338	Contemporary Issues in Drug Prevention	3
H ED 3301	Environmental Health Issues	3



H ED 3321	Health in the School Setting	3
H ED 3348	Prevention of Disease	3
H ED 3350	Consumer Health	3
H ED 3360	Sexuality Education	3
Total Hours		24

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Office of Educator Preparation

Education Building Room 2016  
T: 512.245.7880 F: 512.245.8345  
[www.education.txstate.edu/oep](http://www.education.txstate.edu/oep) (<http://www.education.txstate.edu/oep>)

The Office of Educator Preparation (OEP) serves all university departments and schools that are involved in producing new teachers for grades EC-12, namely, departments and schools in the Colleges of Applied Arts, Business Administration, Education, Fine Arts and Communication, Liberal Arts, and Science and Engineering. The OEP advises and assists students seeking to earn Texas teacher credentials at the undergraduate, post-baccalaureate, and graduate levels.

## Teacher Certification

Students seeking certification to teach EC-6 (Early Childhood through Grade Six), 4-8 (Grade Four through Grade Eight), or All-level Special Education (Early Childhood through Grade 12) will major in Interdisciplinary Studies in the Department of Curriculum and Instruction within the College of Education. Students seeking certification to teach All-level Physical Education or All-level Health will major in X or Y, respectively, in the Department of Health and Human Performance within the College of Education. Students seeking certification to teach in Grades 6, 7, or 8-12 (Grade Six, Seven, or Eight through Grade Twelve) or All-level certification in other disciplines will major in their chosen teaching field in the department and college where that major is housed. Students should note that teacher certification requirements may differ from degree requirements and that completion of both is necessary for awarding a degree and recommending a student for teacher certification. In order to pursue teacher certification, students must apply and be admitted into the Teacher Preparation Program through the Office of Educator Preparation.

## Admittance to the Teacher Preparation Program

In addition to meeting the requirements for admission into the University and following a student's official declaration of a certification-seeking degree program, students must apply to and meet the following requirements for formal admittance into the Teacher Preparation Program:

1. An Overall GPA of at least 2.75.
2. Completion of the following coursework with a grade of "C" or better to demonstrate competency in the following skill areas:
  - Reading: two courses from HIST 1310, HIST 1320, POSI 2310 or POSI 2320 or their equivalents.
  - Written Communication: ENG 1310 and ENG 1320 or their equivalents.
  - Critical Thinking: PHIL 1305 or PHIL 1320 or its equivalent.

- Mathematics: MATH 1315 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2417 or MATH 2471 for Interdisciplinary Studies majors or any algebra-equivalent or higher mathematics course, as determined by the Mathematics Department at Texas State. (Note: MATH 1316 does not fulfill the mathematics requirement for Teacher Preparation Program admittance.)

3. Completion of COMM 1310 or its equivalent with a grade of "B" or better to demonstrate competency in oral communication.  
*If a grade lower than "B" is earned, students may schedule an interview with the Office of Educator Preparation to determine whether the course must be repeated.*
4. Completion of the online Teacher Preparation Program Admittance Module and quiz to learn about current teacher certification requirements, program expectations, and application procedures.
5. Application to the Teacher Preparation Program  
*The online application form is available at <http://www.education.txstate.edu/oep/>.*

Determination of admittance to the Teacher Preparation Program is overseen by the Office of Educator Preparation. More information is available at <http://www.education.txstate.edu/oep>.

## Sequence of Coursework

Students should refer to their Advising Center's degree plan check sheets for guidance in following the Teacher Preparation course sequence in their degree plan. At a minimum, each Teacher Preparation sequence consists of introductory "Education Core" classes, at least one 15 week semester of a Field-Based Block of coursework and a final 15 week semester of Student Teaching that occurs after all other coursework has been completed. Students must apply for Field-block coursework at <http://www.education.txstate.edu/oep/Applications/apply-for-fieldblock-experience.html> and for Student teaching coursework at <http://www.education.txstate.edu/oep/Applications/apply-for-student-teaching.html>.

## Elementary, Middle School, High School, and All-Level Certification Field-Based Requirements

Students in any undergraduate teacher certification program must participate in one or more field-block(s) of integrated courses taught two days per week at a public school in the Central Texas area. This pre-Student Teaching experience is a unique opportunity to learn in actual classrooms, in a partnership between Texas State and public school faculty.

## Student Teaching

All coursework for a student's degree program should be completed prior to Student Teaching. Student Teaching should be done during a student's final semester.

The requirements to be admitted to Student Teaching are as follows:

1. Attendance at a mandatory Student Teaching Round-Up meeting during the long semester prior to the Student Teaching semester (typically the third week of each semester).
2. Validation of required pre-Student Teaching field experiences.
3. An Overall GPA of at least 2.75.

- A GPA of at least 2.50 in all assigned courses in the professional sequence and in the teaching field(s) or specialization(s), with no grade below a C in these courses.
- Approval from the Office of Educator Preparation.

## Graduation and Certification

### Graduation

In addition to the other graduation requirements listed in this catalog, the following graduation requirements must be met by students seeking teacher certification:

- An Overall GPA of at least 2.75.
- Successful completion of student teaching.
- A GPA of at least 2.50 in all assigned courses in the professional sequence and in the teaching field(s) or specialization(s) with no grade below a "C" in these courses.
- Submission of online Graduation Application by the university's deadline.

### Certification

Eligible students should apply for a Texas Educator Certificate through the State Board for Educator Certification. The Certification Officer in the OEP will recommend the issuance of the appropriate certificate by the State of Texas. The certification process includes the following steps:

- Completion of at least a baccalaureate degree and the posting of the degree to the official transcript.
- Verification of satisfactory completion of Student Teaching experience.
- Passing scores on the appropriate Texas Examination of Educator Standards (TExES).

## Dispositions for the Teaching Profession

Students in teacher certification seeking programs are preservice teachers who are expected to exhibit professional dispositions and behaviors that are appropriate to the school environment and that support learners' academic success. These dispositions and behaviors include professional attitudes, values, and beliefs demonstrated through both verbal and non-verbal behaviors as educators interact with students, families, colleagues, and communities.

A candidate who does not meet the expectations for the behaviors and dispositions for the teaching profession will be identified by a professor, supervisor, cooperating teacher, or principal and will meet with an administrator in the Department of Curriculum and Instruction and/or the Office of Educator Preparation to discuss the case. If further action is necessary, the candidate's case will be reviewed by the chair of the appropriate department with input from other faculty, as appropriate, to determine eligibility for the Teacher Preparation Program. Appeals regarding this Committee's decision must be made to the Dean of the College of Education whose decision is final.

## Post-Graduate Certificate Requirement

Persons who hold at least a bachelor's degree and who are seeking either initial or additional Texas teaching certificates need to follow information listed in the Graduate Catalog. More information regarding admittance into Teacher Preparation Program is available at: [www.education.txstate.edu/oep](http://www.education.txstate.edu/oep) (<http://www.education.txstate.edu/oep>).

## College of Fine Arts and Communication

### Dean

John Fleming, Ph.D.  
Old Main Building Room 112  
T: 512.245.2308 F: 512.245.8386  
<http://www.finearts.txstate.edu/>

### Associate Dean

Mary Ellen Cavitt, Ph.D.

### Associate Dean

Laurie H. Fluker, Ph.D.

### Associate Dean

Joey Martin, D.M.A.

### Department Chairs/School Directors

Art and Design—Michael L. Niblett, M.F.A.

Communication Studies—Steven Beebe, Ph.D., Interim

Journalism and Mass Communication—Judith B. Oskam, Ed.D.

Music—Thomas S. Clark, D.M.A.

Theatre and Dance—Debbie R. Alley, M.F.A.

The College of Fine Arts and Communication offers four undergraduate degrees:

- the Bachelor of Arts (B.A.),
- the Bachelor of Fine Arts (B.F.A.),
- the Bachelor of Music (B.M.), and
- the Bachelor of Science (B.S.).

A wide range of programs are available within the disciplines of art and design, theatre and dance, music, mass communication, journalism and communication studies.

In addition to the college's formal degree programs, students have the opportunity to pursue a number of co-curricular programs. These are available to all Texas State students, regardless of major or minor, and range from acting, marching band, wind ensemble, choir, orchestra, jazz bands, classical guitar, concert bands, multicultural ensembles, debate, attendance of art exhibits, lectures and workshops, to production work for KTSW, the campus radio station, or the student newspaper, The University Star.

## Academic Advising Center

Old Main Building Room 118

T: 512.245.1932 F: 512.245.8334  
[www.advising.finearts.txstate.edu](http://www.advising.finearts.txstate.edu) (<http://www.advising.finearts.txstate.edu>)

The College of Fine Arts and Communication Academic Advising Center provides students with advising on academic and administrative issues. Students are informed about matters related to academic majors and career possibilities, the selection of appropriate courses, and the choice of an education program leading to a Bachelor's degree. The Advising Center is a resource for current students and for prospective students who are considering a major or minor in the College of Fine Arts and Communication.

## School of Art and Design

Joann Cole Mitte Building Room 2112

T: 512.245.2611 F: 512.245.7969

[www.finearts.txstate.edu/Art/art.html](http://www.finearts.txstate.edu/Art/art.html) (<http://www.finearts.txstate.edu/Art/art.html>)

The School of Art and Design promotes the understanding of art in culture by providing a learning environment that advances students' critical and creative thinking, encourages diverse perspectives, and nurtures individual artistic expression. The School fosters creative and scholarly activities that develop students' conceptual and technical abilities and encourages visually articulate thinkers. The faculty come from diverse educational, professional and cultural backgrounds. Through effective teaching, the School of Art and Design helps students achieve excellence in their individual, artistic and career goals.

The School of Art and Design offers six programs leading to the following degrees:

- Bachelor of Fine Arts with a major in Communication Design;
- Bachelor of Fine Arts with a major in Photography;
- Bachelor of Fine Arts with a major in Studio Art that offers specializations in ceramics, drawing, expanded media, metals, painting, printmaking, and sculpture;
- Bachelor of Fine Arts with a major in Studio Art leading to All-Level (EC-12) Certification that prepares students for teaching art in elementary and secondary schools;
- Bachelor of Arts with a major in Art History that provides an intellectual foundation and a broad background in the history of art, aesthetics and art criticism; and
- Bachelor of Arts with a major in Art that provides broad exposure to art.

All art and design majors are encouraged to enter the annual student exhibition and to take advantage of the University Art Gallery and visiting artists programs. An active internship program is available for all qualified art and design majors.

### Special Requirements

All students majoring in Studio Art or in Photography are required to participate in the Senior Exhibition (ARTS 4000) within the academic year they plan to graduate. All students majoring in Communication Design are required to participate in Exit Review (ARTC 4000) within the academic year they plan to graduate.

### Communication Design Admission

The Communication Design Program, a three-and-a-half-year sequenced curriculum, emphasizes the integration of critical thinking with a thorough understanding of design principles and processes relevant to the professional practice of design. The program also embraces social, cultural, historical, economic, and global contexts to prepare students to advance their knowledge within the discipline. This approach prepares graduates for successful entry into the profession, as well as for entry into graduate education programs.

Admission requirements for the Communication Design program are more restrictive than those of the University, and enrollment is limited to provide students with a quality experience.

All applicants who indicate Communication Design as their preferred major will be assigned a temporary status/major code of Pre-Communication Design. In addition to meeting Texas State's general admission criteria, all students intending to major in Communication Design must pass ARTC 2000 Admission Portfolio Review, earn a minimum grade of B in ARTC 1301 and ARTC 1302, and have a minimum Overall GPA of 2.75 to be admitted into the program.

Admission Portfolio Review is a competitive formal review of creative work, conducted by Communication Design faculty. Native and transfer students will register for ARTC 2000 during the earliest semester in which they will meet all eligibility requirements. Students who do not pass ARTC 2000 may register for a future review, but will be allowed only one more attempt. Pre-Communication Design majors will not be permitted to enroll in 2000 – 4000 level Communication Design courses until they have met all requirements and have been formally admitted to the program.

Requirements for admission to the Communication Design program are:

1. A minimum Overall GPA of 2.75
2. A minimum grade of "C" in ARTF 1301 and ARTF 1302
3. A passing grade of "CR" in ARTC 2000
4. A minimum grade of "B" in ARTC 1301
5. A minimum grade of "B" in ARTC 1302

All Communication Design majors must maintain a minimum major GPA of 2.75 to meet graduation requirements.

### Bachelor of Arts (B.A.)

- Major in Art (p. 220)
- Major in Art History (p. 221)

### Bachelor of Fine Arts (B.F.A.)

- Major in Communication Design (p. 222)
- Major in Photography (p. 223)
- Major in Studio Art (Ceramics Specialization) (p. 223)
- Major in Studio Art (Drawing Specialization) (p. 224)
- Major in Studio Art (Expanded Media Specialization) (p. 225)
- Major in Studio Art (Metals Specialization) (p. 225)
- Major in Studio Art (Painting Specialization) (p. 226)
- Major in Studio Art (Printmaking Specialization) (p. 227)
- Major in Studio Art (Sculpture Specialization) (p. 228)
- Major in Studio Art (Teacher Certification in Art, Grades EC-12) (p. 228)

### Minors

- Art
- Art History

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this school include: ART (p. 207), ARTC (p. 207), ARTF (p. 210), ARTH (p. 210), ARTS (p. 212), ARTT (p. 219)**

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## Courses in Art (ART)

### ART 2313. Introduction to Fine Arts.

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking MU 2313, TH 2313, or DAN 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

### ART 3313. Introduction to Fine Arts.

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Communication Design (ARTC)

### ARTC 1301. Introduction to Communication Design.

Introduces the field of Communication Design including terminology, creative visual thinking/problem solving, layout design, tools, and materials. Corequisite: ARTC 1302. Prerequisite: ARTF 1301, ARTF 1302 with grades "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 1302. Imaging I.

An introduction to digital imaging emphasizing visual strategies, techniques, and concepts. Corequisite: ARTC 1301. Prerequisites: ARTF 1301, ARTF 1302 with grades "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 2000. Admission Portfolio Review.

During this course, students will prepare and present an entry-level design portfolio. Communication Design majors must pass Admission Portfolio Review to gain entrance into the program. Course is repeatable one time. Prerequisites: ARTF 1301 and ARTF 1302 with grades of "C" or higher. Co-requisites: ARTC 1301 and ARTC 1302

**0 Credit Hours. 0 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### ARTC 2303. Typography I.

This course introduces the evolution and development of alphabets, letter forms, and typography in relationship to visual expression and communication. Corequisite: ARTC 2304. Prerequisites: Admission into the Communication Design Program. ARTC 1301 and ARTC 1302 with grades "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 2304. Conceptual Strategies.

Focuses on concept development and ideation strategies through the production of various design forms. Corequisite: ARTC 2303. Prerequisites: Admission into the Communication Design Program. ARTC 1301 and ARTC 1302 with grades "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 2305. Visualization and Presentation Techniques.

For Interior Design majors only. Introduces rendering techniques, three-dimensional graphics, and digital imaging for visual presentations.

Prerequisites: FCS 1321; ARTF 1302; TECH 1413

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3301. Art Direction I.

Students will develop advertising concepts that relate to the creative strategies, marketing platforms, and psychology specific to client-based communication, and the type of media used. Corequisites: ARTC 3303 and ARTC 3316. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3303. Trademark Design.

Focuses on the design process and concept development of trademark design (i.e., logo design, corporate identity, iconographic systems).

The class emphasizes incorporating historic and contemporary methodologies and practices of trademark design within the context of the communication design discipline. Corequisites: ARTC 3301 and ARTC 3316. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3304. Branding Systems.

Focuses on the creation and application of integrated brand communication systems. Students will develop comprehensive brand identities, typographic elements and layout designs for print and digital media. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3307. Interactive Media I.

This course introduces Web Site design, construction, basic User Interface design, and explores the elements of HTML and CSS. Co-requisite: ARTC 3320. Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3310. Illustration.

Introduces media and illustration methods for basic image development. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ARTC 3313. Imaging II.

This course uses advanced digital and traditional imaging as it applies to visual and verbal problem solving. The class emphasizes incorporating drawing, photography and appropriated images in order to reinforce and extend the possibilities of sourcing and manipulation of images digitally.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ARTC 3316. Communication Design History Seminar.**

This course traces communication design history, through examples of social, political, cultural, technological and economic perspectives, from the end of the 19th century to the present. Students examine how past and current design practices, theory and aesthetics inform and shape the discipline of communication design and contemporary society. Corequisites: This course is to be taken concurrently with ARTC 3301 and ARTC 3303. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 3320. Typography II.**

Introduces advanced issues in page structure and composition, content organization and management, typographic hierarchies, typeface selection, and typesetting. Corequisite: ARTC 3307. Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4000. Senior Exit Review.**

A course in which all graduating seniors must participate during their last academic year. Work will be examined and evaluated while displayed in the Exit Review. Corequisite: ARTC 4315. Prerequisites: ARTC 4308 and completion of 109 hours

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**ARTC 4200. Senior Show & Review.**

Students will be given the guidance and the studio time needed to polish their portfolios and to organize and produce the Communication Design Exit Review. Lectures will focus on best practices for professionals in communication design. Final portfolios will be evaluated while exhibited in the Exit Review. Prerequisite: ARTC 4308. Co-requisite: ARTC 4315. Communication Design majors must take ARTC 4200 and ARTC 4315 in their last semester prior to graduation

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 4302. Art Direction II.**

Students develop strategic messages across print, digital, and social media and evaluate how conceptual direction and message must shift to accommodate various media. Students strengthen their verbal and visual conceptual skills and elevate their research abilities to create dynamic advertising campaigns, and unify brand position with communication. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4303. Art Direction III.**

This course allows students to create art direction projects based on individual professional goals. Faculty will assess each portfolio at the beginning of the course. Students will then address their portfolio content and work to create a body of art direction pieces. Prerequisite: ARTC 4302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4305. Typography III.**

Continues the study of letter form, typography, image and concept relationships for effective communication. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4306. Environmental Graphic Design.**

Introduces a multidiscipline-based design practice centered around exterior and interior built environments. Students examine the visual, theoretical and applied aspects of defining a place through wayfinding, identity and information design. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4308. Interactive Media II.**

This course explores advanced Web Site design, construction and User Interface design, advanced Web authoring for multiple platforms, and advanced Web typography. Prerequisites: ARTC 3301, ARTC 3303, ARTC 3307 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4309. Interactive Media III.**

Mobile application design. Exploration of User Interface design and Experience design for mobile devices. Students will learn to prototype applications that connect the physical and digital worlds. Prerequisite: ARTC 4308

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4310. Communication Design Practicum.**

Students are placed in regional graphic design firms and advertising agencies to gain professional design/art experience. May be repeated with different emphasis for additional credit. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316 and completion of 75 hours

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 4311. Digital Illustration.**

An illustration course using digital media to execute illustrations in a wide range of genres. Emphasis will be placed on developing unique approaches to manipulate traditional illustration techniques through digital means, as well as the creation of original digital illustration solutions. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4312. Editorial Illustration.**

The study of traditional and digital illustration techniques for editorial publication assignments. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ARTC 4313. Communication Design Special Problems.**

An independent study requiring complex problem solving in Communication Design. Goals and objectives will be outlined in a written format. May be repeated with different emphasis for additional credit.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 4314A. Animation.**

The study and practice of various animation techniques. Prerequisites:

ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314B. Legal Issues in Communication Design.**

This course introduces students to the business and legal issues relating to communication design. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314D. Digital Video.**

This course introduces issues in digital video production and editing.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314E. Motion Graphics.**

This course introduces issues and applications in the production of motion graphics and special effects for digital video. Prerequisites:

ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314F. Character Development for Illustration.**

This course emphasizes basic skills of character/plot development and storytelling, action and background drawing and development of characters in unique styles. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314G. Illustration Techniques and Materials.**

A beginning illustration course focusing on learning to render with specific illustration techniques, including traditional black and white line and tone styles, watercolor and acrylic painting techniques and other materials such as collage, scratchboard and monoprint styles.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314H. Poster Design.**

Exploration and experimental usage of the written word integrated with visual imagery by using digital and traditional photographic, illustration, and other graphic elements utilized in poster design. Prerequisites:

ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314I. Learning from the Land of Design.**

The intent of this course is to broaden the students' understanding of the rich culture of Italian design from the Renaissance to modern Italy. Additionally, the student will learn how intense observation of design principles through sketching, photography and keeping a journal, becomes a method for design inspiration and problem solving.

Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 4314J. Package Design.**

Students will explore designed packaged consumer goods while meeting industry and governmental requirements, principles, and guidelines, and sustainability in the context of the global marketplace. Prerequisites:

ARTC 3301, ARTC 3303, and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314K. Introduction to Hand Painted Signs and Lettering.**

This course explores the historic underpinnings, proven techniques, materials and iterative processes associated with hand painted signs and lettering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314L. Guerilla Art Direction.**

This course examines guerilla advertising art direction strategies.

Students will develop non-traditional advertising concepts that promote social causes, consumer products, and public events. Guerilla creative strategy concepts will integrate various types of media including social and mobile interactions with the targeted audiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4315. Senior Portfolio Presentation and Self-Promotion.**

This capstone course focuses on preparations for entry into professional practice via production of a final portfolio presentation, creation of a resume, business card, and self-promotions, and preparation for the interview process. This course is to be taken concurrently with Exit Review during the final semester before graduation. Prerequisites: ARTC 4308 and completion of 109 hours. Co-requisites: ARTC 4000 or ARTC 4200

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4316. Book Design.**

This course will cover concept and content development, design, and execution of single edition and limited edition books through lectures, demonstrations, and studio work. Emphasis placed on creativity, problem solving, organizational ability, technical precision, and independent work ethic. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Art Foundations (ARTF)

**ARTF 1301. 2-D Design.**

Introduction to the elements and principles of design through the use of a variety of two-dimensional media and techniques

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1311

**ARTF 1302. Basic Drawing.**

Introduction to a variety of media and techniques for exploring descriptive and expressive possibilities in drawing

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1316

**ARTF 1303. 3-D Design.**

Introduction to the elements and the principles of design through the use of a variety of three-dimensional materials and techniques

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1312

**ARTF 1304. Color Theory.**

Introduction to color as a descriptive and expressive element of art, focusing on color perception and application

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2311

## Courses in Art History (ARTH)

**ARTH 2301. Ancient to Medieval Art.**

A survey of the history of painting, sculpture, and architecture from pre-historic through medieval periods. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1303

**ARTH 2302. Renaissance to Modern Art.**

A survey of art history from the fourteenth century through the twenty-first century. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1304

**ARTH 3300. Art Criticism and Writing.**

This course introduces students to the history and practice of art criticism and provides them with relevant tools and experiences to craft their own body of art criticism. Prerequisites: ARTH 2301 and ARTH 2302. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 3301. History of Modern Art.**

This course offers a survey of the stylistic trends, aesthetic issues, and evolving philosophy of modern art in Europe and the Americas from 1900 to 1965

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3303. Issues in Contemporary Art.**

An issue-oriented survey of the diverse forms and concepts in contemporary art making practices, mostly from the United States, from 1965 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3306. History of Photography.**

This course surveys the history of photography from its earliest manifestations until the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3307. Issues in Contemporary Art.**

An issue-oriented survey of the diverse forms and concepts in contemporary art making practices, mostly from the United States, from 1965 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 4300. History of American Art.**

This course provides an introduction to American art and visual culture from ancient times to the 1950s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4302. Latin American Art.**

This course surveys the rich and varied visual art of Latin American and Caribbean countries from the wars of independence to the present day with a focus on recurring themes that have resonated in art throughout the region, such as modernism, internationalism, nationalism, race, identity, and political activism. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4303. Pre-Columbian Art.**

A survey of the art of Pre-Columbian sites and cultures in Mesoamerica and the Central Andes, from pre-history to the European conquest. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4304. Global History of Cinema.**

A survey of the history of European and American film as an art form. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4306. Renaissance Art.**

An in-depth survey of the history of Italian Renaissance art, including key works of art representative of the Northern Renaissance. Course emphasizes the study of iconography and stylistic change, in conjunction with larger cultural developments. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4308. Asian Art.**

A broad survey of the art of Asian cultures including India, Japan, and China from pre-history to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4309. Feminism and Visual Representation.**

This course provides an introduction to feminist art, theory, and visual culture by focusing on the relationships between several key feminist concerns, including sexuality and gender experience and difference. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4310. Race and Representation.**

This course explores the variegated ways that race, and, by implication, identity and difference, is figured and represented in a range of cultural productions, including art, film and visual culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4311. History of Italian Art.**

Taught on-site and centered in Florence, Italy, this course represents a targeted immersion into Renaissance art and culture and includes the study of pivotal works of art and architecture across the Italian peninsula. May be substituted for ARTH 2301 or ARTH 2302. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 4312. The Arts in Popular Culture.**

This course examines popular culture, including the emergence of mass culture, and its complex intersection with the fine arts from the nineteenth century onwards. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4313. Hellenistic Art and Culture.**

This course focuses on the Greek aesthetic tradition from the fourth century BCE to the end of the first century C.E., with a cross-disciplinary emphasis on the interaction of Greek and non-Greek cultures from Northern India to the Italian peninsula. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4314. Art and Politics.**

This course explores various ways in which artists and patrons have worked to change or endorse political policy, exploring art both as a tool for social cohesion in support of a particular political party or ideal and as a means of political protest. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4320A. Documentary Photography.**

This course explores key issues in the theory, history, and practice of documentary photography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4320B. Curatorial Practices.**

This course considers the history and cultural significance of the practice of curating and exhibition making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321N. Perspectives on Andy Warhol.**

This course explores Post-World War II art and culture by focusing on the career of Andy Warhol. The class will examine the multiple media and strategies for artistic dialogue and visibility that the artist implemented over his decades-long practice from the 1960s through the 1980s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321O. Spanish Colonial Art of Latin America.**

This course surveys the art and architecture of the Spanish and Portuguese Viceroyalties in the Americas from the conquest to the wars of independence, examining the role that art and architecture played in religion, government, social structuring, and identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321P. Artists' Writing.**

This course explores ways in which visual artists have engaged with the written word in relationship to their art work. Readings will be taken from diaries, manifestos, critical and experimental essays, and works of fiction. Students will create their own writings and/or art work in response to weekly readings. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321Q. Video Art.**

This course considers the myriad ways artists have mobilized video to confront and complicate representations of people affected by the HIV/AIDS pandemic. Most of this course will be spent discussing videos and readings from the 1980s and 1990s and will be localized to the United States. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321S. Conceptualism.**

This course explores the emergence of conceptualism globally during the 1950s through the 1980s and considers its impact on contemporary art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321T. Art in the 1990s.**

This course broadly considers the state of global art and politics in the 1990s from a postcolonial perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321U. Contemporary Art in Italy.**

Taught on-site and centered in Florence, Italy, students consider a number of contemporary art and exhibition practices, with emphasis on discursive formations of the global. May be substituted for ARTH 3307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321V. History of Experimental Film.**

This course provides an overview of experiments in avant-garde and artists films from 1920 until the present. Students will learn how to analyze the meaning in moving images that exhibit unconventional narratives and will examine reactions these films have provoked in audiences past and present

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321W. Contemporary Art in Mexico.**

This course explores contemporary art practices in Mexico through site visits, studio visits, readings and writing. Capitalizing on the city's dynamic artists, project spaces and museums, students will interact with some of the leading professionals in the arts

**3 Credit Hours. 12 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321X. Islamic Art.**

This course will survey the arts associated with the religion of Islam from the life of Muhammad in the seventh century through the early modern period, with an emphasis upon the Middle East, North Africa, and the Iberian Peninsula

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4322. Special Problems.**

An advanced level, independent study in art history, aesthetics, and criticism. The emphasis of the course is on scholarship, research, and writing. May be repeated with different emphasis for additional credit.

Prerequisite: Consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4323. Art History Thesis I.**

A senior-level course focused on research, methodology, and writing in art history. Prepares students for final senior thesis projects.

Prerequisites: ARTH 2301, ARTH 2302, ARTH 3301 and ARTH 3307 with minimum grades of C; and ARTH 3300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4324. Art History Thesis II.**

A senior level course focused on independent research and writing in art history and on the completion of a final thesis project. Prerequisite: ARTH 4323

ARTH 4323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4325. Art History Internship.**

This course will offer students the opportunity to experience and receive academic credit for professional activities related to the field of art history. Consent of instructor required

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Studio Art (ARTS)

**ARTS 1305. Digital Studio Foundations.**

This course will provide an introduction to digital imaging software as a tool for the visual artist. Students will learn terminology, operating systems, and how to store, organize and transfer digital data. Special emphasis will be placed upon the use of the computer for conceptual and aesthetic problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2301. Expanded Media I.**

This introductory studio art course introduces time as a medium.

Students become familiar with the unique capabilities of video, sound and performance through screenings, demonstrations, individual projects and critiques. Prerequisites: ARTS 1305 (or ARTC 1302) and ARTF 1301

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2311. Ceramics I.**

An introduction to clay as a medium for creative expression. Basic hand-building and wheel-throwing methods of forming are employed to investigate form and develop conceptual awareness. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2346



**ARTS 2321. Drawing I.**

Introduces the analytical study of the human form and the figure's potential for compositional and expressive use of drawing. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2323

**ARTS 2331. Fibers I.**

An introduction to fiber techniques as a means of individual expression and problem solving. Prerequisites: ARTF 1301, ARTF 1302, ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2336

**ARTS 2341. Metals I.**

An introduction to metal as a medium for creative expression emphasizing conceptual awareness while developing technical and creative skills. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2341

**ARTS 2351. Painting I.**

An introduction to painting emphasizing the elements and principles of pictorial composition. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2316

**ARTS 2361. Foundations of Photography I.**

This course introduces basic concepts in photography through lecture, readings and studio practice in traditional and digital processes.

Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2371. Printmaking I.**

This course introduces relief and screen printing techniques, covering both traditional and contemporary as well as manual and digital techniques. Provides a historical, technical, visual and conceptual foundation for printmaking. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2333

**ARTS 2381. Sculpture I.**

An introduction to sculptural materials and processes as a medium for creative expression. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2326

**ARTS 2391. Watercolor I.**

An introduction to the fundamentals of transparent watercolor painting as a medium for creative expression. Prerequisites: ARTF 1301, ARTF 1302, and ARTS 1305 or ARTC 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2366

**ARTS 3302. Expanded Media II.**

This studio course continues explorations of formal, critical and technical approaches to time-based practices. Students incorporate diverse media and materials to generate interdisciplinary projects. Emphasis is placed on modes of presentation. Prerequisite: ARTS 2301

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3303. Expanded Media III.**

This is a rotating topics course in Expanded Media. Potential course topics include, but are not limited to, performance, participatory practices, institutional critique and contextual methodologies. Prerequisite: ARTS 3302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3304. Expanded Media IV.**

This is a rotating topics course in Expanded Media. Potential course topics include, but are not limited to, computer programming, web-based systems, animation, sound design and interactive multimedia. Prerequisite: ARTS 3303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3312. Ceramics II.**

Through pottery forms and/or clay sculpture, students develop conceptual and expressive skills. Students formulate glazes and fire kilns. Prerequisites: ARTS 2311

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3313. Ceramics III.**

Through individualized projects, students develop personal content and expression in their work. Students formulate clay bodies and slips, and investigate experimental firing methods. Prerequisite: ARTS 3312

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3314. Ceramics IV.**

Continued development of personal expression through a self-initiated series of works. Students investigate technically complex forming methods. Prerequisite: ARTS 3313

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ARTS 3322. Drawing II.**

Experimentation with techniques and materials to develop perceptual and conceptual skills leading to individual expression in drawings.

Prerequisite: ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3323. Drawing III.**

Focuses on the development of a personal visual statement using the human form as subject matter. Interpretive skills are stressed and alternative approaches to generating visual imagery are explored.

Prerequisite: ARTS 3322

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3324. Drawing IV.**

Emphasizes conceptual skills and critical analysis in the development of individual imagery and aesthetics in drawing. Consistent thematic drawings are required. Prerequisite: ARTS 3323

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3332. Fibers II.**

Development of visual and conceptual skills through traditional and experimental techniques. Prerequisites: ARTS 2331

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3333. Fibers III.**

Development of a personal aesthetic direction in fibers using loom and/or non-loom processes. Prerequisites: ARTS 3332

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3334. Fibers IV.**

The conceptual and technical aspects of fibers are developed through experimentation, research and evaluation. Prerequisite: ARTS 3333

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3342. Metals II.**

The development of a personal aesthetic and conceptual direction in the metal medium focusing on the relationship between surface and form. Casting is introduced and the exploration of patination and surface coloration continues. Prerequisites: ARTS 2341

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3343. Metals III.**

Emphasis on a personal conceptual direction in the solution of formal problems using complex construction and fabrication processes.

Prerequisite: ARTS 3342

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3344. Metals IV.**

An introduction to the ductile qualities of the metal medium through advanced forming and raising processes. In a series of artworks, students develop a personal aesthetic. Prerequisite: ARTS 3343

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3352. Painting II.**

A series of projects synthesizing the elements and principles of pictorial composition that encourage individual creative solutions. Prerequisites: ARTS 2351, ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3353. Painting III.**

Development of personal imagery in painting through individualized projects. Prerequisite: ARTS 3352

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3354. Painting IV.**

The conceptual and technical aspects of painting are developed through experimentation, research and evaluation. Prerequisite: ARTS 3353

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3355. Digital Painting.**

A course developing basic skills in the use of computer graphic tools and related peripheral devices for creating digital paintings. The course is intended for students with a foundation in traditional painting and drawing media. Prerequisite: ARTS 2351

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3361. Foundations of Photography II.**

This course introduces black and white aesthetics and techniques within a traditional and digital context. Prerequisite: ARTS 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3363. Alternative Photographic and Digital Processes.**

This course places an emphasis on the conceptual and technical aspects of digital and photographic imaging using the chemistry and techniques of alternative printing methods. Prerequisites: ARTS 3361 and ARTS 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3364. Introduction to Digital Photography.**

This course introduces students to the aesthetics of current digital imaging technology, including new digital cameras, scanning equipment, Macintosh computers, image-manipulation programs and printing devices. Prerequisite: ARTS 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3365. Studio Photography.**

This course uses a studio environment to explore issues in controlled lighting in photography. Prerequisites: ARTS 2361 and ARTS 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3366. Intermediate Digital Photography.**

This course builds and expands upon the digital concepts and techniques covered in Introduction to Digital Photography. Prerequisite: ARTS 3364

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3372. Printmaking II.**

This course introduces, in alternate semesters, intaglio printing during the fall semesters (including copper plate printing: drypoint, mezzotint, etching, aquatint and photo-polymer plates) and lithography printing during the spring semester (including plate and stone litho, as well as photo-lithography) Prerequisites: ARTS 2371, ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3373. Printmaking III.**

This course introduces, in alternate semesters, intaglio printing during fall semesters (including copper plate printing: drypoint, mezzotint, etching, aquatint, and photo-polymer plates) and lithography printing during the spring semester (including plate and stone litho, as well as photo-litho). Prerequisite: ARTS 3372

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3374. Printmaking IV.**

Having learned the basic printmaking techniques, students are introduced to Book Arts, hand binding, and containers/boxes. Digital printmaking is also introduced as part of the repertoire of the contemporary artist/printmaker. Prerequisite: ARTS 3373

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3376. Screen Printing.**

This course introduces students to contemporary and traditional techniques in serigraphy (also known as screen printing) to produce a series of four in-depth, major creative projects. Repeatable for credit.

Prerequisites: ARTF 1301, ARTF 1302, ARTF 1303, and ARTS 1305 or ARTC 1302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3382. Sculpture II.**

Development of a personal aesthetic direction with emphasis on the visual, conceptual and technical aspects of sculptural form.

Prerequisites: ARTS 2381

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3383. Sculpture III.**

Emphasizes personal aesthetic direction through the development of advanced metal casting and fabricating techniques. Prerequisite: ARTS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3384. Sculpture IV.**

Focuses on developing conceptual and technical skills through the creation of large-scale sculpture. Prerequisite: ARTS 3383

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3392. Watercolor II.**

Continues the development of creative and technical skills through a series of structured watercolor projects. Prerequisite: ARTS 2391

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4000. Senior/Thesis Art Exhibition.**

A senior level course in which all graduating students majoring in Studio Art with a studio specialization, Studio Art leading to All Level Certification, or in Photography, must participate during their last academic year. In consultation with thesis faculty, studio art and photography students will select work to exhibit from their Thesis I and Thesis II courses. Students earning teaching certification will select work to exhibit in consultation with art education faculty advisors

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4200. Portfolio, Practice, and Exhibition.**

This course provides the skills to prepare, package, and present the BFA Thesis in Studio Art and Photography, including written and professional documents and documentation of the creative work. The course also covers topics required for pursuing a career in the arts, building community, and preparing for post-BFA opportunities. Prerequisite: ARTS 1305. Co-requisite: Thesis II in specialized studio area

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4305. Expanded Media V.**

This advanced studio course integrates contemporary theory and practice. Reading assignments and viewings serve as thematic prompts for students to create projects in an interdisciplinary manner. Experimentation and unexpected outcomes are encouraged. Prerequisite: ARTS 3304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4306. Expanded Media VI.**

This course is the first half of Senior Thesis for students under the Expanded Media Specialization. It requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4305

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4307. Expanded Media VII.**

This course is the second half of Senior Thesis for students under the Expanded Media Specialization. It requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4306

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4308D. Natural and Human Environment of Italy.**

This courses uses Italy as the backdrop to enhance aesthetic understanding of both color (slide transparency) and black and white photography. A strong emphasis is placed on developing visual, conceptual and technical aspects of photography using advanced camera knowledge, chemistry, and sensitivity to local visual stimuli

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308E. Fine Art Forging.**

An introduction to the theories and processes of forging and blacksmithing for both ferrous and non-ferrous metals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308I. Disegno a Firenze: Drawing in Florence.**

Part of the summer program in Italy, this class focuses on drawing from various subjects in and around the city of Florence. Through daily practice, students will address not only the fundamentals of monochromatic drawing, but also the increased perception that the act of drawing engenders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308N. Digital Animation.**

This course will provide an introduction to the technical and conceptual processes for creating digital animations. Instruction includes software and hardware requirements and knowledge, visual problem solving, and conceptual development. Each student will complete a short animated video by the end of the course. Prerequisites: ARTF 1301, ARTF 1302, and ARTS 1305 or ARTC 1302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308O. Graphic Novels and 'Zines.**

This class will explore comics, zines, graphic novels and forms of narrative art as a contemporary medium. The student will be introduced to historical and contemporary examples, including cinema and printed matter. The student will create original work in comic strips, 'zines, graphic novellas and/or printed ephemera

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308S. Mapping the City: Interdisciplinary Art in Urban Spaces.**

This course will explore different methods of mapping (real and conceptual) utilized by contemporary artists and engage students in collaborative multidisciplinary projects. Students will build on their own interests and strengths, utilizing photography/video/interview formats/drawing/collage/etc., to build a portfolio of contemporary works.

Prerequisite: ARTS 1305

**3 Credit Hours. 48 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308T. Digitally Handmade for Artists and Designers.**

This class provides the fundamental skills for integrating digital fabrication technologies with other art making processes. Students will be introduced to digital design and fabrication using 3D modeling software, 3D printers, and CNC milling. A variety of materials will be taught through conceptual, technical, and creative problem solving

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308U. Soft Sculpture.**

This course emphasizes personal aesthetic direction in sculpture through the study of numerous materials that are fiber based with an emphasis on contemporary practices in papermaking, sewing, surface design, and material manipulation. Prerequisite: ARTS 2381

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4312. Studio Art Internship.**

A course designed to offer students the opportunity to experience and receive academic credit for professional related activities in the field of the studio arts. Requires consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4313. Studio Practice.**

This course provides the necessary professional skills needed to pursue a career in the arts. These skills include: writing about your work; building community; giving a formal presentation; designing a business plan and setting concrete goals; conducting research; preparation of materials for post-BFA opportunities. Cannot be retaken for credit. Prerequisites: ARTS 3364 or Level IV in specialization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4315. Ceramics V.**

Development of the conceptual and technical aspects of ceramics through experimentation, research and evaluation. Prerequisite: ARTS 3314

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4316. Ceramics VI – Thesis I.**

The first half of the Senior Thesis for ceramics majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4315

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4317. Ceramics VII – Thesis II.**

The second half of the Senior Thesis for ceramics majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition.

Prerequisite: ARTS 4316. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4318. Ceramics Special Problems.**

An advanced level, independent study in ceramics which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3313

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4325. Drawing V.**

Requires students to pursue a personal conceptual direction in drawing and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3324

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4326. Drawing VI – Thesis I.**

The first half of the Senior Thesis for drawing majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4325

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4327. Drawing VII – Thesis II.**

The second half of the Senior Thesis for drawing majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4326. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4328. Drawing Special Problems.**

An advanced level, independent study in drawing which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3323

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4335. Fibers V.**

Requires students to pursue a personal and conceptual direction in fibers and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3334

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4336. Fibers VI – Thesis I.**

The first half of the Senior Thesis for fibers majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4335

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4337. Fibers VII – Thesis II.**

The second half of the Senior Thesis for fibers majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4336 with a minimum grade of B. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4338. Fibers Special Problems.**

An advanced level, independent study in fibers which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3333

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4345. Metals V.**

Focusing on the conceptual and technical aspects of the metal medium through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ARTS 3344

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4346. Metals VI – Thesis I.**

The first half of the Senior Thesis for metals majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4345

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4347. Metals VII – Thesis II.**

The second half of the Senior Thesis for metals majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4346. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ARTS 4348. Metals Special Problems.**

An advanced level, independent study in metals which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit.

Prerequisite: ARTS 3343

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4355. Painting V.**

Requires students to pursue a personal conceptual direction in painting and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3354

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4356. Painting VI – Thesis I.**

The first half of the Senior Thesis for painting majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite:

ARTS 4355

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4357. Painting VII – Thesis II.**

The second half of the Senior Thesis for painting majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition.

Prerequisite: ARTS 4356. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4358. Painting Special Problems.**

An advanced level, independent study in painting which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit.

Prerequisite: ARTS 3353

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4360. Readings in Photography.**

In this intensive writing course, students will read, write, and create studio projects in reaction to historical and contemporary written accounts of the history, practice, and interpretation of photography. Prerequisites:

ARTH 3306, ARTH 3307. Corequisite: ARTS 4366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4363. Color Photography and Digital Imaging.**

This is a course in the aesthetics of color digital and photographic imaging and color prints made from transparencies. This course emphasizes developing the visual, conceptual and technical aspects of digital and photographic imaging using advanced camera knowledge and color chemistry for printing both color negative and digital files.

Prerequisite: ARTS 4364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4364. Advanced Digital Photography.**

This course explores advanced concepts and techniques in digital photography. Prerequisite: ARTS 3366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4366. Photography Thesis I.**

This course is a senior-level course for photography majors requiring a series of related photographs. This course is the first half of the senior thesis. Prerequisite: ARTS 4360 or ARTS 3365 or ARTS 3366

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4367. Photography Thesis II.**

The course is the second half of the Senior Thesis for photography majors requiring a series of original photographs to be documented in a written creative statement. An exhibition in the gallery of some or all of the work culminates the senior thesis. Prerequisite: ARTS 4366. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4368. Fine Art Photography Special Problems.**

An advanced level, independent study in photography which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Must be an Art major or minor to enroll. Prerequisites: ARTS 2361; ARTF 1301, ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4375. Printmaking V.**

Students in level V pursue one or more of the various printmaking techniques, mixed with other techniques as necessary, to develop the appropriate technical, aesthetic and conceptual skills necessary to create a cohesive body of work. Prerequisite: ARTS 3374

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ARTS 4376. Printmaking VI.**

The student begins to create a conceptually linked body of work for their BFA. Written statements and other documentation are required, and priority is placed on the development of a personal and professional direction. Prerequisite: ARTS 4375

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4377. Printmaking VII.**

The student completes their thesis work, culminating in participation in the Thesis Exhibition. Written statement, thesis and other professional documents are required, as is visual documentation of the thesis work. Emphasis is placed on a conceptually linked body of work and professional presentation. Prerequisite: ARTS 4376. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4378. Printmaking Special Problems.**

An advanced level, independent study in printmaking which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3373

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4379. Introduction to Book Arts.**

This class examines the book as a complex visual and tactile art form. Demonstrations are given on traditional bindings from Asia and Europe. Students produce multiple mock-up books in addition to a major project of their choosing. Slide lectures introduce the history of books and an overview of contemporary artistic activity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4385. Sculpture V.**

The conceptual and technical aspects of sculpture are developed through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ARTS 3384

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4386. Sculpture VI – Thesis I.**

The first half of the Senior Thesis for sculpture majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4385

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4387. Sculpture VII – Thesis II.**

The second half of the Senior Thesis for sculpture majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4386. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4388. Sculpture Special Problems.**

An advanced level, independent study in sculpture which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3383

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Art Theory and Practice (ARTT)

**ARTT 2371. Fundamentals of Art Theory and Practice.**

A survey and analysis of the theories and practices of art learning. Topics include: philosophy; history and theory of art learning; technology; artistic development; learning theories; assessment tools; program development; presentations and current realities; trends and issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 2372. Learning and Digital Media.**

This course examines theories and practices of using electronic media for the creation of art as well as for enhancement of the art learning process. Prerequisite: ARTT 2371. Recommended co-requisite: ARTT 3373

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3370. Art Theory and Practice.**

Introduces the theories and practices of children's art learning for the non-art major

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3372. Art Theory and Practice for Children.**

A survey and analysis of the theories and practices of teaching art to children. Topics include artistic development, art programming, content, philosophies, methodologies, objectives and assessment. Requires 10 clock hours of field experience in an elementary art learning setting.

Prerequisite: ARTT 2371. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 3373. Art Theory and Practice for Adolescents.**

The theories and practices of adolescent art learning. Topics include: learning environments, artistic development, presentation methodologies, objectives and assessment, and other current topics. Requires 10 clock hours of field experience in a secondary school art setting. Prerequisite: ARTT 2371

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3375. Experimental Water Media.**

Upper level elective for studio majors. Fills teaching certification watercolor requirement. Students will experiment with water media, including watercolor, egg tempera, gouache, and mixed media on a variety of surfaces, including yupo and gessoed paper. Students will explore mixed media with watercolor. Justification: Future teachers need to develop skills in a wide range of water media, on a wide range of paper including yupo, and in combining watercolor with media, such as prismacolors, markers, water soluble markers and pencils and collage. These things are not covered in the watercolor studio course. The course would also serve as an elective for studio art majors who want to explore multiple media with watercolor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ARTT 4000. Senior Art Education Exhibition.**

A senior level course in which all graduating Art Education Seniors must participate during their last academic year. Work will be examined and produced leading to a showing in one of the Senior Student Exhibitions

**0 Credit Hours. 0 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

**ARTT 4375. Pedagogy of Art Criticism, History & Aesthetics.**

A survey and in-depth analysis of the philosophies and structures of art criticism, art history, and aesthetics, as well as contemporary methodologies for analyzing, interpreting and judging works of art. Prerequisite: ARTT 2371 with a grade of "C" or higher, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ARTT 4376. Special Problems in Art Theory and Practice.**

Individualized study focusing on personal skill and knowledge development related to art learning experiences. Research will include a review of literature, a design for practical experience, and documentation of results and conclusions. May be repeated with different emphasis for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ARTT 4377. Pedagogy for Art Educators.**

This course is the capstone course for art education majors and offers advanced K-12 pedagogy that supports the development of curriculum and a teaching portfolio. Students are required to participate in service learning fieldwork for a minimum of 6 hours. Prerequisites: ARTT 2371 with at least a C; Corequisites: Prior credit or enrolled in ARTT 3372, ARTT 3373, ARTT 4375, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ARTT 4380A. Computer Art.**

An advanced level elective designed to examine and apply various techniques of creating and utilizing computer art for use in teaching art in the public schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ARTT 4380B. Introduction to Advanced Placement Courses in Public Schools.**

An advanced level elective designed to examine the advanced placement course programs available in the public schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ARTT 4380C. Community-Based Art Programs.**

This course will survey the growing field of community arts and prepare students to work in or with community-based arts programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ARTT 4380D. Art Education in the Community.**

This course will provide a service learning environment to explore the ways that art education theory can be applied to community environments in order to enable positive social change. The course reconsiders the role of the art educator in the context of the social sector. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics  
**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Art

### Minimum required: 120 semester hours

#### General Requirements

1. Majors must complete 39 hours of art.
2. A minor is required. Some minors may exceed 24 hours.
3. General education core curriculum and B.A. degree requirements must be met, and students are required to have completed 36 advanced hours.
4. Prerequisites for all advanced Art classes must be met. Students must be aware that the 2000 level ARTS classes chosen will determine the advanced ARTS classes they are eligible to take.

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
Select one of the following:	3
ARTS 2321	
ARTS 2351	
ARTS 2371	
ARTS 2391	
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
COMM 1310	3
Modern Language 1410	4

US 1100	1
	29
<b>Sophomore</b>	<b>Hours</b>
Select one of the following:	3
ARTS 2311	
ARTS 2331	
ARTS 2341	
ARTS 2381	
ARTH 2301	3
ARTH 2302	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
PHIL 1305 or 1320	3
Modern Language 1420	4
HIST 1310	3
Minor	6
	31
<b>Junior</b>	<b>Hours</b>
ARTH 3301	3
ART Advanced Electives	6
Life and Physical Sciences	6
POSI 2310	3
HIST 1320	3
Modern Language 2310	3
Modern Language 2320	3
Minor	3
	30
<b>Senior</b>	<b>Hours</b>
ARTH 3307	3
ART advanced electives	6
BA English Literature	3
Social and Behavioral Sciences	3
POSI 2320	3
BA Math/Science/Logic	3
Minor	9
	30
Total Hours: 120	

## Bachelor of Arts (B.A.) Major in Art History

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete 39 hours of art.
2. A minor is required. A French or German minor is recommended. Some minors may exceed 24 hours.
3. General education core curriculum and B.A. degree requirements must be met, and students are required to have completed 36 advanced hours and a minimum of 120 overall hours

<b>Freshman</b>	<b>Hours</b>
ARTF 1301	3
ARTH 2301	3
ARTH 2302	3
ENG 1310	3
ENG 1320	3
COMM 1310	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
US 1100	1
Modern Language 1410 (FR or GER recommended)	4
Modern Language 1420 (FR or GER recommended)	4
	30
<b>Sophomore</b>	<b>Hours</b>
ARTF 1302	3
ARTH 3301	3
ARTH 3306	3
ARTH 3307	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
Select one of the following:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
Modern Language 2310 (FR or GER recommended)	3
Modern Language 2320 (FR or GER recommended)	3
	30
<b>Junior</b>	<b>Hours</b>
ARTH Advanced Electives	3
ARTH 3300	3

BA English Literature	3
Social and Behavioral Sciences	3
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
Life and Physical Sciences	3
POSI 2310	3
POSI 2320	3
Minor	6
	30
<b>Senior</b>	<b>Hours</b>
ARTH 4323 <sup>1</sup>	3
ARTH Advanced Electives	6
BA Math/Science/Logic	3
Life and Physical Sciences	3
Minor	9
General Elective (if needed)	3
ARTH 4324 <sup>1</sup>	3
	30

Total Hours: 120

<sup>1</sup> Students will complete ARTH 4323, Thesis I, during the Fall semester of their Senior Year and ARTH 4324, Thesis II, during the Spring semester of their Senior Year.

## Bachelor of Fine Arts (B.F.A.) Major in Communication Design

**Minimum required: 120 semester hours**

### General Requirements

1. General education core curriculum requirements must be met including a minimum of 77 hours in Art and 36 advanced hours.
2. Students must have a minimum cumulative Pre-Communication Design GPA of 2.75 to be eligible for Admission Portfolio Review.
3. Students must maintain a minimum major GPA of 2.75 to meet graduation requirements.

		Freshman	
	Fall Semester Hours		Spring Semester Hours
ARTF 1301 <sup>1,2</sup>	3	ARTC 1301 <sup>1,2</sup>	3
ARTF 1302 <sup>1,2</sup>	3	ARTC 1302 <sup>1,2</sup>	3
ARTF 1303	3	ARTC 2000 <sup>1,2</sup>	0
ENG 1310	3	ENG 1320	3
COMM 1310	3	Select one of the following:	3
US 1100	1	MATH 1315	
		MATH 1316	
		MATH 1319	
		Select one of the following: <sup>3</sup>	3
		ART 2313	
		DAN 2313	
		MU 2313	

		TH 2313	
		Fall Semester Hours	Spring Semester Hours
		16	15
<b>Sophomore</b>			
		Fall Semester Hours	Spring Semester Hours
ARTC 2303	3	ARTC 3307	3
ARTC 2304	3	ARTC 3320	3
ARTH 2301	3	ARTH 2302	3
Select one of the following:	3	Select one of the following:	3
ARTS 2321		ARTS 2301	
ARTS 2351		ARTS 2321	
ARTS 2361		ARTS 2351	
ARTS 2371		ARTS 2361	
ARTS 2391		ARTS 2371	
ARTS 3376		ARTS 2391	
English Literature	3	ARTS 3376	
		PHIL 1305 or 1320	3
		15	15
<b>Junior</b>			
		Fall Semester Hours	Spring Semester Hours
ARTC 3301	3	ARTC 3304	3
ARTC 3303	3	ARTC Advanced Elective #1 <sup>4</sup>	3
ARTC 3316	3	Select one of the following:	3
Life and Physical Sciences	3	ARTS 2301	
HIST 1310	3	ARTS 2311	
		ARTS 2331	
		ARTS 2341	
		ARTS 2381	
		Life and Physical Sciences	3
		HIST 1320	3
		15	15
<b>Senior</b>			
		Fall Semester Hours	Spring Semester Hours
ARTC 4308	3	ARTC 4200	2
ARTC Advanced Elective #2 <sup>4</sup>	3	ARTC 4315	3
Select one of the following:	3	ARTC Advanced Elective #3 <sup>4</sup>	3
ARTS 2301		1 course from ART (C,H,S,T) Advanced Elective	3
ARTS 2321		POSI 2320	3
ARTS 2351			
ARTS 2361			
ARTS 2371			
ARTS 2391			
ARTS 3376			
POSI 2310	3		
SOCI 1310 or PSY 1300 <sup>5</sup>	3		
		15	14

Total Hours: 120

<sup>1</sup> Students must complete ARTF 1301 and ARTF 1302, each with a minimum grade of "C"; must be concurrently enrolled in ARTC 1301 and ARTC 1302 or have completed 1301 and 1302; and be enrolled in ARTC 2000 Admission Portfolio Review to be eligible to submit their work for Admission Portfolio Review.

- <sup>2</sup> Students must pass ARTC 2000 Admission Portfolio Review and complete ARTC 1301 and ARTC 1302 each with a minimum grade of "B" to be admitted to the Communication Design program.
- <sup>3</sup> To complete the 050 Creative Arts component of the core curriculum, Communication Design majors are encouraged to take the required course Introduction to Fine Arts in Dance, Music or Theatre.
- <sup>4</sup> Select any advanced ARTC course to satisfy ARTC electives, excluding ARTC courses already taken to satisfy course requirements.
- <sup>5</sup> To complete the 080 Social and Behavioral Sciences component of the core curriculum, Communication Design majors are required to take SOCI 1310 or PSY 1300 .

## Bachelor of Fine Arts (B.F.A.) Major in Photography

**Minimum required: 120 semester hours**  
**General Requirements**

1. Majors must complete a minimum of 77 hours in art and design. A minimum of 27 hours are required within the photography curriculum.
2. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours.

		Freshman	
	Fall Semester Hours		Spring Semester Hours
ARTF 1301	3	ARTS 2361	3
ARTF 1302	3	ARTF 1303	3
ARTS 1305	3	ARTH 2301	3
ENG 1310	3	ENG 1320	3
Select one of the following:	3	Select one of the following:	3
ART 2313		MATH 1315	
DAN 2313		MATH 1316	
MU 2313		MATH 1319	
TH 2313			
US 1100	1		
16		15	

		Sophomore	
	Fall Semester Hours		Spring Semester Hours
ARTS 3361	3	Select one of the following:	3
ARTS 3364	3	ARTS 2351	
ARTH 3306	3	ARTS 2371	
Select one of the following:	3	ARTS 2391	
ARTS 2301		ARTS 2321	
ARTS 2311		ARTS 3366	3
ARTS 2331		ARTH 2302	3
ARTS 2341		Life and Physical Sciences	3
ARTS 2381		COMM 1310	3
Life and Physical Sciences	3		
15		15	

		Junior	
	Fall Semester Hours		Spring Semester Hours
ARTS 3365	3	ARTH 3307	3
ARTS 3322	3	ARTS 4364	3
ARTH 3301	3	ART (C,H,S,T) Elective	3

English Literature	3	HIST 1310	3
HIST 1310	3	Social and Behavioral Sciences	3
15		15	
		Senior	
	Fall Semester Hours		Spring Semester Hours
ARTS 4360	3	ARTS 4367	3
ARTS 4366	3	ART (C,H,S,T) electives	6
ART (C,H,S,T) electives	3	POSI 2320	3
POSI 2310	3	ARTS 4200	2
PHIL 1305 or 1320	3		
15		14	

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Ceramics Specialization)

**Minimum required: 120 semester hours**  
**General Requirements**

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Ceramics.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2311	3
ARTS 2321	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1
31	

Sophomore	Hours
ARTH 2301	3
ARTH 2302	3
ARTS 3312	3
ARTS 3313	3
Select one of the following:	3



ARTS 2351	
ARTS 2361	
ARTS 2371	
ARTS 2391	
ARTS 3376	
Any ARTS 4308 course	
Select two of the following:	6
ARTS 2301	
ARTS 2331	
ARTS 2341	
ARTS 2381	
COMM 1310	3
Life and Physical Sciences	6

30

<b>Junior</b>		<b>Hours</b>
ARTS 3314		3
ARTS 4315		3
ARTS 3322		3
ARTH 3301		3
ARTH 3307		3
English Literature		3
PHIL 1305 or 1320		3
HIST 1310		3
HIST 1320		3
ART (C,H,S,T) electives		3

30

<b>Senior</b>		<b>Hours</b>
ARTS 4316		3
ARTS 4317		3
ART (C,H,S,T) electives		3
Advanced Art (C,H,S,T) electives		9
ARTS 4200		2
POSI 2310		3
POSI 2320		3
Social and Behavioral Sciences		3

29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Drawing Specialization)

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Drawing.
2. Majors must complete 21 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours

<b>Freshman</b>		<b>Hours</b>
ARTF 1301		3
ARTF 1302		3

ARTF 1303		3
ARTS 2321		3
ARTS 1305		3
ENG 1310		3
ENG 1320		3
Select one of the following:		3
ART 2313		
DAN 2313		
MU 2313		
TH 2313		
Select one of the following:		3
MATH 1315		
MATH 1316		
MATH 1319		
COMM 1310		3
US 1100		1

31

<b>Sophomore</b>		<b>Hours</b>
ARTH 2301		3
ARTH 2302		3
ARTS 3322		3
ARTS 3323		3
Select one of the following:		3
ARTS 2301		
ARTS 2351		
ARTS 2361		
ARTS 2371		
ARTS 2391		
ARTS 3376		
Select two of the following:		6
ARTS 2301		
ARTS 2311		
ARTS 2331		
ARTS 2341		
ARTS 2381		

3

6

30

<b>Junior</b>		<b>Hours</b>
ARTS 3324		3
ARTS 4325		3
ARTH 3301		3
ARTH 3307		3
ART (C,H,S,T) electives		9
PHIL 1305 or 1320		3
HIST 1310		3
HIST 1320		3

30

<b>Senior</b>		<b>Hours</b>
ARTS 4326		3
ARTS 4327		3
Advanced Art (C,H,S,T) electives		12

ARTS 4200	2
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
	29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Expanded Media Specialization)

### Minimum required: 120 semester hours

#### General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Expanded Media.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours.

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2301	3
ARTS 2361	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1
	31

Sophomore	Hours
ARTS 3302	3
ARTS 3303	3
ARTS 2381	3
ARTH 2301	3
ARTH 2302	3
Select one of the following:	3
ARTS 2321	
ARTS 2351	
ARTS 2371	
ARTS 2391	
ARTS 3376	
Select one of the following:	3

ARTS 2311	
ARTS 2331	
ARTS 2341	
COMM 1310	3
Life and Physical Sciences	6
	30

Junior	Hours
ARTS 3304	3
ARTS 4305	3
ARTS 3322	3
ARTH 3301	3
ARTH 3307	3
ART Elective	3
English Literature	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
	30

Senior	Hours
ARTS 4306	3
ARTS 4307	3
ART Elective	3
ADV ART Electives	9
ARTC 4200	2
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
	29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Metals Specialization)

### Minimum required: 120 semester hours

#### General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Metals.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2341	3
ARTS 2321	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	

DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1

31

Sophomore	
	Hours
ARTH 2301	3
ARTH 2302	3
ARTS 3342	3
ARTS 3343	3
Select one of the following:	3
ARTS 2301	
ARTS 2351	
ARTS 2361	
ARTS 2371	
ARTS 2391	
ARTS 3376	
Select two of the following:	6
ARTS 2301	
ARTS 2311	
ARTS 2331	
ARTS 2381	
COMM 1310	3
Life and Physical Sciences	6

30

Junior	
	Hours
ARTS 3344	3
ARTS 4345	3
ARTS 3322	3
ARTH 3301	3
ARTH 3307	3
English Literature	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
ART (C,H,S,T) electives	3

30

Senior	
	Hours
ARTS 4346	3
ARTS 4347	3
ART (C,H,S,T) electives	3
Advanced Art (C,H,S,T) electives	9
ARTS 4200	2
POSI 2310	3
POSI 2320	3

Social and Behavioral Sciences	3
	29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Painting Specialization)

### Minimum required: 120 semester hours General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Painting.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours

Freshman	
	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2351	3
ARTS 2321	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1

31

Sophomore	
	Hours
ARTH 2301	3
ARTH 2302	3
ARTS 3352	3
ARTS 3353	3
Select one of the following:	3
ARTS 2301	
ARTS 2361	
ARTS 2371	
ARTS 2391	
ARTS 3376	
Select two of the following:	6
ARTS 2301	
ARTS 2311	
ARTS 2331	
ARTS 2341	

ARTS 2381	
COMM 1310	3
Life and Physical Sciences	6
	30
<b>Junior</b>	<b>Hours</b>
ARTS 3322	3
ARTS 3354	3
ARTS 4355	3
ARTH 3301	3
ARTH 3307	3
English Literature	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
ART (C,H,S,T) electives	3
	30
<b>Senior</b>	<b>Hours</b>
ARTS 4356	3
ARTS 4357	3
ART (C,H,S,T) electives	3
Advanced Art (C,H,S,T) electives	9
ARTS 4200	2
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
	29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Printmaking Specialization)

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Printmaking.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours.

<b>Freshman</b>	<b>Hours</b>
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2371	3
ARTS 2321	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	

MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1
	31

<b>Sophomore</b>	<b>Hours</b>
ARTH 2301	3
ARTH 2302	3
ARTS 3372	3
ARTS 3373	3
Select one of the following:	3
ARTS 2301	
ARTS 2351	
ARTS 2361	
ARTS 2391	
ARTS 3376	
Select two of the following:	6
ARTS 2301	
ARTS 2311	
ARTS 2331	
ARTS 2341	
ARTS 2381	
COMM 1310	3
Life and Physical Sciences	6
	30

<b>Junior</b>	<b>Hours</b>
ARTS 3374	3
ARTS 4375	3
ARTS 3322	3
ARTH 3301	3
ARTH 3307	3
English Literature	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
ART (C,H,S,T) electives	3
	30

<b>Senior</b>	<b>Hours</b>
ARTS 4376	3
ARTS 4377	3
ART (C,H,S,T) electives	3
Advanced Art (C,H,S,T) electives	9
ARTS 4200	2
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
	29

Total Hours: 120

# Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Sculpture Specialization)

**Minimum required: 120 semester hours**

## General Requirements

1. Majors must complete a minimum of 77 hours in art. A minimum of 21 hours are required in Sculpture.
2. Majors must complete 15 hours of art electives.
3. General education core curriculum requirements must be met, and students are required to have completed 36 advanced hours.

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTS 1305	3
ARTS 2381	3
ARTS 2321	3
ENG 1310	3
ENG 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Select one of the following:	3
MATH 1315	
MATH 1316	
MATH 1319	
US 1100	1

31

Sophomore	Hours
ARTH 2301	3
ARTH 2302	3
ARTS 3382	3
ARTS 3383	3
Select one of the following:	3
ARTS 2301	
ARTS 2351	
ARTS 2361	
ARTS 2371	
ARTS 2391	
ARTS 3376	
Select two of the following:	6
ARTS 2301	
ARTS 2311	
ARTS 2331	
ARTS 2341	
ARTS 2381	
COMM 1310	3

Life and Physical Sciences	6
	30
<b>Junior</b>	<b>Hours</b>
ARTS 3384	3
ARTS 4385	3
ARTS 3322	3
ARTH 3301	3
ARTH 3307	3
English Literature	3
PHIL 1305 or 1320	3
HIST 1310	3
HIST 1320	3
ART (C,H,S,T) electives	3
	30
<b>Senior</b>	<b>Hours</b>
ARTS 4386	3
ARTS 4387	3
ART (C,H,S,T) electives	3
Advanced Art (C,H,S,T) electives	9
ARTS 4200	2
POSI 2310	3
POSI 2320	3
Social and Behavioral Sciences	3
	29

Total Hours: 120

# Bachelor of Fine Arts (B.F.A.) Major in Studio Art (Teacher Certification in Art, Grades EC-12)

**Minimum required: 121 semester hours**

## General Requirements

1. Certification in art is All Level (K-12)
2. All Core Curriculum and Teacher Certification requirements must be met.
3. Majors must complete 60 hours in Art and 18 hours in Education.
4. Majors must complete a minimum of 36 advanced hours.
5. A minimum overall GPA of 2.75, a minimum major GPA of 2.5 and minimum GPA of 2.5 in all Teacher Certification courses is required.
6. Majors must complete all required courses in the major and the Teacher Certification area with a minimum grade of "C".
7. Majors must apply to and be admitted to the Teacher Preparation Program, through the Office of Educator Preparation (p. 204), before making application to the Professional Block for Education Certification.
8. Majors must apply for the Professional Block for Education Certification and for Student Teaching the semester prior to taking the classes in these areas.
9. Majors must complete the Student Teacher Roundup requirements before applying for Student Teaching.
10. Majors must complete all required coursework in the degree plan prior to Student Teaching (EDST).
11. Studio art electives are to be selected as follows:



Three courses in 2D Studio Art from:	9
ARTS 2301 Expanded Media I	
ARTS 2321 Drawing I	
ARTS 2351 Painting I	
ARTS 2361 Foundations of Photography I	
ARTS 2371 Printmaking I	
ARTS 2391 Watercolor I	
or ARTT 3375 Experimental Water Media	
ARTC 1301 Introduction to Communication Design	
ARTC 1302 Imaging I	
Three courses in 3D Studio Art from:	9
ARTS 2301 Expanded Media I	
ARTS 2311 Ceramics I	
ARTS 2331 Fibers I	
or ARTS 4300 or ART Sculpture	
ARTS 2341 Metals I	
ARTS 2381 Sculpture I	
2 upper level 2D ARTS, 3D ARTS or ARTT electives	6

ARTT 4377	3
ARTS 2D	3
ARTS 3D	6
CI 3325	3
HIST 1310	3
HIST 1320	3
POSI 2310	3
POSI 2320	3
	33

Senior	Hours
ARTS or ARTT Advanced Elective <sup>1,2</sup>	6
ARTS 3D <sup>2</sup>	3
Social and Behavioral Sciences <sup>2</sup>	3
English Literature	3
ARTS 4000	0
CI 4343	3
CI 4370	3
RDG 3323	3
EDST 4380 <sup>3</sup>	3
EDST 4381 <sup>3</sup>	3
	30

Total Hours: 121

<sup>1</sup> Select two advanced (3000 or 4000 level) courses in ARTS 2D, ARTS 3D, or ARTT electives.

<sup>2</sup> To meet all degree requirements in 4 years a 9-12 hour summer session is recommended prior to Senior Year.

<sup>3</sup> Only the Student Teaching EDST 4380 and EDST 4381 courses can be taken in the second semester of the Senior Year.

## Minor in Art

Courses for the Art Minor must be chosen in consultation with the Director, School of Art and Design. All prerequisites must be met for any course chosen to satisfy requirements for the Art Minor. A student cannot both major and minor in the School of Art and Design. A Minor in Art requires 24 hours as listed below.

ARTF 1301	2-D Design	3
ARTF 1302	Basic Drawing	3
ARTF 1303	3-D Design	3
Select three courses from ARTC, ARTH, ARTS, or ARTT		9
Select two courses from advanced level ARTC, ARTH, ARTS, or ARTT		6
		1
Total Hours		24

<sup>1</sup> Students should consult with their major advisor about the number of advanced hours required for graduation.

## Minor in Art History

The School of Art and Design offers a Minor in Art History. 18 semester credit hours are required. This minor will offer students, who are interested in art history but do not want to major in it, the opportunity to acquire important visual and critical thinking skills central to the discipline. We believe that the minor in Art History will help students

Freshman	Hours
ARTF 1301	3
ARTF 1302	3
ARTF 1303	3
ARTT 2371	3
ARTT 2372	3
MATH 1315	3
ENG 1310	3
PHIL 1305 or 1320	3
Creative Arts Core Component.	3
Choose one from:	
ART 2313	
MU 2313	
DAN 2313	
TH 2313	
US 1100	1
	28

Sophomore	Hours
ARTH 2301	3
ARTH 2302	3
ARTT 3372	3
ARTT 3373	3
Choose 6 hours from:	6
ARTS 2D	
ARTC 1301	
ARTC 1302	
COMM 1310	3
Life and Physical Sciences	6
ENG 1320	3
	30

Junior	Hours
ARTH 3301	3
ARTT 4375	3

increase their competitiveness in a job market where employees are particularly interested in well-rounded job applicants who not only have specific technical skills but also a wider understanding of history and culture. A student cannot both major and minor in the School of Art and Design.

#### Required Courses

ARTH 2301	Ancient to Medieval Art	3
ARTH 2302	Renaissance to Modern Art	3

#### Elective Courses

Students select four Upper Division Art History Electives from the 3000 level lecture and 4000 level seminar courses.<sup>1</sup>

Total Hours	18
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<sup>1</sup> With the exception of ARTH 4325: Art History Internship, offered every semester, the 4000 level courses are taught in rotation on a three-year cycle.

## Department of Communication Studies

Centennial Hall Room 205

T: 512.245.2165 F: 512.245.3138

[www.finearts.txstate.edu/commstudies](http://www.finearts.txstate.edu/commstudies) ([http://](http://www.finearts.txstate.edu/commstudies)

[www.finearts.txstate.edu/commstudies](http://www.finearts.txstate.edu/commstudies))

Communication studies examines the creation, expression, and analysis of messages in our personal, professional, and public lives. Communication studies students learn to manage message processes within and among individuals, groups, organizations, and societies. They explore verbal and nonverbal communication, organizational and business communication, rhetoric and criticism, argumentation and persuasion, and communication technology.

Communication studies majors learn principles and practical skills useful for careers in business, industry, government, non-profit organizations, social services, and education. Graduates enter such professions as law, business, public relations, event planning, public service, teaching, management, human resources, training and development, marketing, sales, public administration, politics, and ministry.

Some students may wish to concentrate on a particular aspect of communication study. Although there is no required sequence of courses for any single area of interest, the following general guide may be used to assist students in providing a focal point for their communication study.

### Interpersonal Communication

Courses that focus on interpersonal communication are designed to provide students with skills and knowledge to pursue a variety of career goals that involve interpersonal interactions with others. This area of interest is appropriate for students seeking careers in business, non-profit organizations, sales, public relations, customer service, counseling, hospitality services (e.g. travel or hotel industry) or other careers or professions which emphasize effective human relationship skills.

### Organizational Communication

Courses that focus on organizational communication are designed to enhance the student's marketability in careers requiring skills in the management of human relationships and communication flow within

contemporary business, public service, non-profit, and professional organizations.

## Persuasive Communication

Persuasive communication emphasizes study in rhetoric, public address, and argumentation. This area of interest is appropriate for students planning careers in business and industry, non-profit organizations, sales and marketing, the ministry, law, politics or other careers in which persuasion, rhetorical, and analytical skills are important.

## Departmental Internship Elective

Some students may wish to enroll in the Internship course COMM 4390. Requirements for the course may be found in the Courses section of the catalog.

## Bachelor of Arts (B.A.)

- Major in Communication Studies (p. 234)
- Major in Communication Studies (Interpersonal Communication Concentration) (p. 234)
- Major in Communication Studies (Organizational Communication Concentration) (p. 235)
- Major in Communication Studies (Persuasive Communication Concentration) (p. 236)
- Major in Communication Studies (Teacher Certification in Speech, Grades 7-12) (p. 237)

## Minors

- Communication Studies
- Health Communication (p. 238)
- Leadership Studies
- Political Communication
- Second Teaching Field in Speech (Grades 7-12)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Communication Studies (COMM)

### COMM 1310. Fundamentals of Human Communication.

This course examines the speaking and listening principles and techniques that are fundamental for every aspect of human communication. The course develops basic verbal and nonverbal communication skills and knowledge in three specific contexts: interpersonal, small group, and public speaking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Lab Required|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1311

**COMM 1340. Voice and Articulation.**

This course is a study of the physiology of the human voice and the sounds of speech. The student's own voice will be the primary focus, with practice to develop speech appropriate for professional contexts.

Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1342

**COMM 2111. Speech and Drama Activities.**

A course designed to provide credit for participation in communication studies and theatre activities. May be repeated for a total four credits in communication studies and four credits in theatre. May be repeated with different emphasis for additional credit

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1144

**COMM 2315. Interpersonal Communication.**

This course studies communication principles and theories exploring interpersonal interactions with emphasis on conceptual foundations, personal growth and skill enhancement. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1318

**COMM 2326. Interpretive Reading.**

A study of the techniques of the oral interpretation of literature with an emphasis on performance. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 2341

**COMM 2330. Small Group Communication.**

This course focuses on communication in small groups and teams including an analysis of the structure and skills involved in managing the task and relational components of group work. Special emphasis is placed on problem solving discussion, effective meeting leadership and participation, and critical thinking. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 2333

**COMM 2338. Public Speaking.**

This course helps the student to develop personal speaking skills and introduces principles of contemporary types of speeches. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1315

**COMM 3301. Empirical Research Methods.**

This course explores how to conduct and interpret communication research through the scientific method. Prerequisite: 6 hours COMM

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3302. Rhetorical Research Methods.**

Students will explore and apply methods of analysis and evaluation of rhetorical discourse with emphasis on developing critical research and writing skills. Students should complete COMM 3302 before enrolling in other advanced rhetorical studies courses. Prerequisite: COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3310. Communication Theory.**

This course explores the practical ways in which communication theory operates to foster self-awareness, to make sense of personal experiences, and to cultivate critical thinking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3318J. Communication in Health Organizations.**

This course examines the delivery and exchange of messages within health organizations. Specific communication contexts to be emphasized will include interpersonal conflict, negotiating, communication networks, communication environments, virtual systems of communication, channel/media selection strategies, communication climate, communities of practice, public relations communication campaigns, and organizational crisis management. Prerequisite: COMM 2315 or COMM 2330 or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318K. Diversity and Communication.**

This course will examine various styles of formal and informal communication and how to build awareness and understanding of diversity. It will address diversity issues stemming from similarities and differences in social characteristics such as age, gender, race, and sexual orientation. It will address how society communicates about issues related to diversity. Prerequisites: COMM 2315 or COMM 2330 or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318M. Intercultural Communication in the Americas.**

This course explores principles and practices of intercultural communication with specific applications to North and South America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318O. Environmental Communication: Sustainability, Rhetoric, Criticism and Advocacy.**

The analysis of environmental communication contributes much to our knowledge about public discourse and the symbolic processes of influence in formal oratory, public debate, political communication, organizational communication, and mass media. This course will challenge you, but the rewards will be worth the effort - you will see and hear the public messages around you in a whole new way

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318Q. The Dark Side of Communication.**

The Dark Side of Communication will examine aversive and problematic interactions in the interpersonal, organizational, and instructional settings. Sample topics include hurtful messages, stalking, aggression, jealousy, fatal attraction, and conflict. Students will take a research-based approach to understanding these undesirable, yet very common, communicative messages. Restricted to sophomore or higher classification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318R. Instructional Communication Practicum.**

This course will provide students with an overview of instructional communication research including teacher immediacy and clarity, and student responsiveness and engagement. Students will also work with a faculty supervisor as an instructional aide in which they will facilitate experiential activities and learn to assess lower division assignments.

Permission of supervising instructor is required prior to registration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3318S. Social Media in Organizations.**

Social Media in Organizations prepares students to be effective social media writers, resourceful workers, critical consumers, and savvy job seekers. We will consider members' use of social media inside organizations as well as explore our peripheral connection with organizations as consumers and prospective employees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318T. Sports Communication.**

Sports Communication provides a theoretical foundation to understand and apply interpersonal, organizational, team, and public communication skills in sports settings. Sample topics include: fan culture, racial identity and gender, player/coach interactions, and crisis communication.

Students gain practical knowledge and skills to optimize verbal and nonverbal messages in sports contexts. Prerequisite: COMM 1310.

Sophomore standing required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3319. Introduction to Organizational Communication.**

Examines contemporary research about the influence of communication on the organization. Prepares the student to understand and manage communication processes in organizations. Prerequisites: COMM 2315 or COMM 2330; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3325. Communication and Conflict Management.**

Demonstrates the ways communication skills can be used to manage conflict. The class also provides an analytic framework for diagnosing conflict, negotiation, and mediation. Prerequisites: COMM 2315 or 2330 or permission of instructor; Full major or minor status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3326. Family Communication.**

A study of the theory and research exploring the family communication process in a variety of family types. Prerequisites: COMM 2315; Full major or minor status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3328. Communication and Gender.**

Investigates the interactive nature of communication and gender, the creation of gender identities, and the role of gender and communication in a variety of settings. Prerequisites: COMM 2315; Full major or minor status. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3329. Intercultural Communication.**

Presents theory and application of communication skills for a culturally diverse world. Develops verbal and nonverbal abilities in social and professional intercultural contexts. Prerequisites: COMM 2315, COMM 2330, or COMM 2338; Full major or minor status. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 3330. Nonverbal Communication.**

Introduces the conceptual foundations of nonverbal communication. Theoretical components, research methods and applications of nonverbal communication are also explored in a variety of contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3345. Argumentation and Debate.**

A study of basic principles of argumentation emphasizing analysis, evidence, reasoning, and refutation and their applications in formal and informal debate contexts. Students will do laboratory work with the University forensics squad. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3358. Professional Communication.**

Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including job selection, resume preparation and presentation, interviewing, and interaction management in business and professional settings.

Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4111. Practicum in Communication Studies.**

On-the-job experience working with faculty to assist with the department missions of teaching, research or service. Students may work in the department communication lab, assist faculty in the classroom, serve as faculty research assistants or other academic support tasks. May be repeated one time for additional credit. Prerequisites: Senior class standing and permission of department chair; Full major or minor status

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COMM 4307. Media Criticism.**

Explores the influence of media messages based upon communication and rhetorical theories in shaping perceptions and values. Focus is upon the rhetorical analysis of how the visual media of film and television communicate social, political, and personal attitudes and behaviors.

Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4310. Methods of Teaching Communication Studies.**

A study of methods of teaching communication studies principles and skills for secondary school teachers. Students enrolled in teacher certification programs with a major in Nutrition, Consumer Affairs, Communication Studies or a second teaching field in Communication Studies should contact the Department of Communication Studies for approval to register.

Prerequisites: COMM 1310, COMM 2338, COMM 2315, or COMM 2330 with minimum grade of "C". (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 4315. Directed Research in Communication Studies.**

Individual or group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the departmental chair prior to registration. May be repeated with different emphasis for additional credit. Prerequisites: Permission of instructor; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**COMM 4320. Planning Communication Studies Activities and Events.**

This course is designed to assist individuals in the management and implementation of communication activities and events. The course includes practical experience in planning and directing individual events

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COMM 4321. American Speeches.**

Analysis and evaluation of major American speeches and their influence on the history and culture of the United States from 1630 to the present.

Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4322. Rhetoric of Protest Movements.**

Explores the persuasive strategies used by protest and political movements to promote social and political change. Focuses upon the application of critical perspectives in understanding the stages, leadership styles, and rhetorical appeals characteristics of movements in American society. Prerequisites: COMM 2338; Full major or minor status. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 4324. Organizational Rhetoric.**

Guided by principles of rhetoric, students will investigate a variety of functions for internal and external audiences. Functions will include building identity; managing issues, impressions, and crisis; and influencing organizational culture. Students will use this knowledge to create and analyze organizational messages. Prerequisite: COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4325. Communication and Technology.**

This course explores how the use of information and communication technologies relates to interpersonal, organizational, public, political, and intercultural communication practices and outcomes. Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4326. Health Communication.**

This course provides students with an overview of major theoretical and practical issues for communicating about health issues in clinical, organizational, relational, and public contexts. Students will gain knowledge and skills to improve patient health outcomes through effective message strategies. Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4329. Communication Training and Human Resource Development.**

This course presents the principles and skills of developing and presenting communication training programs. An emphasis is placed upon applications of communication skill development, communication theory, and instructional communication research in organizational contexts. Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4331. Persuasion.**

An investigation of rhetorical and behavioral theories of persuasion, the devising of persuasive campaigns, as well as the consumption and generation of persuasive messages in a variety of communication settings. Applicable for careers in business, law, and human relations. Prerequisites: COMM 2315 or COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4338. Advanced Public Speaking.**

In-depth critical analysis of speech construction and the development of presentation skills. Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4345. Political Communication.**

A study of historical and contemporary political campaigns in the United States analyzing management strategies, promotional techniques, and rhetorical messages. Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**COMM 4347. Leadership and Communication.**

An advanced course in communication designed to examine in detail the phenomenon of leadership in groups and organizations. Various theories and approaches to leadership will be surveyed with an emphasis on applying leadership principles. Prerequisites: COMM 2330; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4351. Relational Communication.**

This course is a study of communication in close relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4390. Communication Internship.**

This course provides on the job experience in a communication related role in an approved organization. Enrollment requires permission of the instructor, a minimum of 150 clock hours on the job, a written contract with the internship coordinator, and a final portfolio of work. May be repeated for additional credit. Prerequisites: 6 hours of upper level communication electives completed with a grade of "C" or higher.

Restricted to full majors or minors in their junior or senior year. Good academic standing required

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Communication Studies

**Minimum required: 120 semester hours**

### General Requirements

1. General education core curriculum options should be discussed with your academic advisor. Requirements and choices are listed in the Academic Services section.
2. In addition to the core curriculum requirements, the Bachelor of Arts degree requires three additional hours of English literature, three hours of math/science/logic/computer science courses, and six hours of 2000-level modern language courses.
3. Any student admitted to Texas State may declare and be admitted under the temporary pre-program status. With this status, students may enroll in the following communication courses, COMM 1310, COMM 2315, COMM 2330, and COMM 2338. Once a student has accumulated at least 45 hours and has an Overall GPA of at least 2.50, the student may then declare a major in Communication Studies. Only students admitted to the major will be able to register for additional upper level courses.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics	3
US 1100	1
POSI 2310	3
POSI 2320	3
COMM 2315	3
COMM 2338	3

Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3

31

Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
COMM 2330	3
Life and Physical Sciences	6
Modern Language 1410	4
Modern Language 1420	4
HIST 1310	3
HIST 1320	3

29

Junior	Hours
COMM 3301	3
COMM 3302	3
COMM Advanced Elective	6
Minor	9
English Literature	3
Modern Language 2310	3
BA Math, Science or Logic	3

30

Senior	Hours
COMM Advanced Elective	9
Modern Language 2320	3
Minor	9
Free Electives	9

30

Total Hours: 120

## Bachelor of Arts (B.A.) Major in Communication Studies (Interpersonal Communication Concentration)

**Minimum required: 120 semester hours**

### General Requirements

1. General education core curriculum options should be discussed with your academic advisor. Requirements and choices are listed in the Academic Services section.
2. In addition to the core curriculum requirements, the Bachelor of Arts degree requires six hours of English literature, three hours of math/science/logic/computer science courses, and six hours of 2000-level modern language courses.
3. Any student admitted to Texas State may declare and be admitted under the temporary pre-program status. With this status, students may enroll in the following communication courses, COMM 1310, COMM 2315, COMM 2330, and COMM 2338. Once a student has

accumulated at least 45 hours and has an Overall GPA of at least 2.50, the student may then declare a major in Communication Studies. Only students admitted to the major will be able to register for additional upper level courses.

<sup>1</sup> Choose from the list of Interpersonal Communication Electives below. See an advisor in the College of Fine Arts and Communication for more information.

### Interpersonal Communication Electives

COMM 3325	Communication and Conflict Management	3
COMM 3326	Family Communication	3
COMM 3328	Communication and Gender	3
COMM 3329	Intercultural Communication	3
COMM 3330	Nonverbal Communication	3
COMM 4326	Health Communication	3
COMM 4331	Persuasion	3

## Bachelor of Arts (B.A.) Major in Communication Studies (Organizational Communication Concentration)

### Minimum required: 120 semester hours General Requirements

1. General education core curriculum options should be discussed with your academic advisor. Requirements and choices are listed in the Academic Services section.
2. In addition to the core curriculum requirements, the Bachelor of Arts degree requires six hours of English literature, three hours of math/science/logic/computer science courses, and six hours of 2000-level modern language courses.
3. Any student admitted to Texas State may declare and be admitted under the temporary pre-program status. With this status, students may enroll in the following communication courses, COMM 1310, COMM 2315, COMM 2330, and COMM 2338. Once a student has accumulated at least 45 hours and has an Overall GPA of at least 2.50, the student may then declare a major in Communication Studies. Only students admitted to the major will be able to register for additional upper level courses.

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics	3
US 1100	1
POSI 2310	3
POSI 2320	3
COMM 2315	3
COMM 2338	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics	3
US 1100	1
POSI 2310	3
POSI 2320	3
COMM 2315	3
COMM 2338	3
Select one of the following:	3
ART 2313	
MU 2313	
DAN 2313	
TH 2313	
Social and Behavioral Sciences	3

31

Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
COMM 2330	3
Life and Physical Sciences	6
Modern Language 1410	4
Modern Language 1420	4
HIST 1310	3
HIST 1320	3

29

Junior	Hours
COMM 3301	3
COMM 3302	3
Interpersonal COMM Advanced Electives <sup>1</sup>	6
Minor	9
English Literature	3
Modern Language 2310	3
BA Math, Science or Logic	3

30

Senior	Hours
Interpersonal COMM Advanced Electives <sup>1</sup>	9
Modern Language 2320	3
Minor	9
Free Electives	9

30

Total Hours: 120

<b>Sophomore</b>		<b>Hours</b>
English Literature		3
PHIL 1305 or 1320		3
COMM 2330		3
Life and Physical Sciences		6
Modern Languages 1410		4
Modern Languages 1420		4
HIST 1310		3
HIST 1320		3
		<b>29</b>
<b>Junior</b>		<b>Hours</b>
COMM 3301		3
COMM 3302		3
Organizational COMM Advanced Electives <sup>1</sup>		6
Minor		9
English Literature		3
Modern Language 2310		3
BA Math, Science or Logic		3
		<b>30</b>
<b>Senior</b>		<b>Hours</b>
Organizational COMM Advanced Electives <sup>1</sup>		9
Modern Language 2320		3
Minor		9
Free Electives		9
		<b>30</b>
<b>Total Hours: 120</b>		

<sup>1</sup> Choose from the list of Organizational Communication Electives below. See an advisor in the College of Fine Arts and Communication for more information.

### Organizational Communication Electives

COMM 3319	Introduction to Organizational Communication	3
COMM 3325	Communication and Conflict Management	3
COMM 3329	Intercultural Communication	3
COMM 3330	Nonverbal Communication	3
COMM 3358	Professional Communication	3
COMM 4324	Organizational Rhetoric	3
COMM 4329	Communication Training and Human Resource Development	3
COMM 4331	Persuasion	3
COMM 4347	Leadership and Communication	3
COMM 4390	Communication Internship	3

## Bachelor of Arts (B.A.) Major in Communication Studies (Persuasive Communication Concentration)

**Minimum required: 120 semester hours**

### General Requirements

1. General education core curriculum options should be discussed with your academic advisor. Requirements and choices are listed in the Academic Services section.
2. In addition to the core curriculum requirements, the Bachelor of Arts degree requires six additional hours of English literature, three hours of math/science/logic/computer science courses, and six hours of 2000-level modern language courses.
3. Any student admitted to Texas State may declare and be admitted under the temporary pre-program status. With this status, students may enroll in the following communication courses, COMM 1310, COMM 2315, COMM 2330, and COMM 2338. Once a student has accumulated at least 45 hours and has an Overall GPA of at least 2.50, the student may then declare a major in Communication Studies. Only students admitted to the major will be able to register for additional upper level courses.

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics	3
US 1100	1
POSI 2310	3
POSI 2320	3
COMM 2315	3
COMM 2338	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	<b>31</b>
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
COMM 2330	3
Life and Physical Sciences	6
Modern Language 1410	4
Modern Language 1420	4
HIST 1310	3
HIST 1320	3
	<b>29</b>
<b>Junior</b>	<b>Hours</b>
COMM 3301	3
COMM 3302	3

Persuasive COMM Advanced Electives <sup>1</sup>	6
Minor	9
English Literature	3
Modern Language 2310	3
BA Math, Science or Logic	3
	30
<b>Senior</b>	<b>Hours</b>
Persuasive COMM Advanced Electives <sup>1</sup>	9
Modern Language 2320	3
Minor	9
Free Electives	9
	30
Total Hours: 120	

<sup>1</sup> Choose from the list of Persuasive Communication Electives below. See an advisor in the College of Fine Arts and Communication for more information.

### Persuasive Communication Electives

COMM 3345	Argumentation and Debate	3
COMM 4307	Media Criticism	3
COMM 4321	American Speeches	3
COMM 4322	Rhetoric of Protest Movements	3
COMM 4324	Organizational Rhetoric	3
COMM 4331	Persuasion	3
COMM 4338	Advanced Public Speaking	3
COMM 4345	Political Communication	3

## Bachelor of Arts (B.A.) Major in Communication Studies (Teacher Certification in Speech, Grades 7-12)

**Minimum required: 120 semester hours**

### General Requirements

- General education core curriculum options should be discussed with your academic advisor. Requirements and choices are listed in the Academic Services section.
- In addition to the core curriculum requirements, the Bachelor of Arts degree requires three additional hours of English literature, three hours of math/science/logic/computer science courses, and six hours of 2000-level modern language courses.
- Any student admitted to Texas State may declare and be admitted under the temporary pre-program status. With this status, students may enroll in the following communication courses, COMM 1310, COMM 2315, COMM 2330, and COMM 2338. Once a student has accumulated at least 45 hours and has an Overall GPA of at least 2.50, the student may then declare a major in Communication Studies. Only students admitted to the major will be able to register for additional upper level courses.
- An Overall GPA of 2.75 is required for graduation with teacher certification.

5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics - Select one from:	3
MATH 1315	
MATH 1319	
MATH 1329	
MATH 2321	
MATH 2417	
MATH 2471	
US 1100	1
POSI 2310	3
POSI 2320	3
COMM 2315	3
COMM 2338	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
COMM 2330	3
COMM 2326	3
Life and Physical Sciences	6
Modern Language 1410	4
Modern Language 1420	4
HIST 1310	3
HIST 1320	3
	32
<b>Junior</b>	<b>Hours</b>
COMM 3301	3
COMM 3302	3
COMM 3345	3
COMM 4320	3
CI 3325	3
CI 4332	3
English Literature	3
Modern Language 2310	3
BA Math, Science or Logic	3
COMM Advanced Elective	3
Free Elective	3
	33
<b>Senior</b>	<b>Hours</b>
COMM 4310	3
Modern Language 2320	3

CI 4343	3
CI 4370	3
RDG 3323	3
EDST 4681	6
Free Electives	3
<hr/>	
	24

Total Hours: 120

## Minor in Communication Studies

A minor in Communication Studies requires 21 hours. COMM 2111 and COMM 4111 will not be counted toward the minor.

COMM 1310	Fundamentals of Human Communication	3
COMM 2315	Interpersonal Communication	3
COMM 2330	Small Group Communication	3
COMM 2338	Public Speaking	3
Select 9 hours of COMM electives, 3 of which must be advanced.		9
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Total Hours		21

## Minor in Health Communication

A minor in Health Communication includes a unique blend of theory, research, and application. The study of health communication can contribute to disease prevention and health promotion in areas such as provider-patient communication, patient-family communication, public health messages and campaigns, health in mass media, public health, and technology and health. The minor is interdisciplinary and requires 21 hours, including courses from the Department of Communication Studies, the School of Health Administration, the School of Journalism and Mass Communication, and the Department of Psychology. Students will take the following:

COMM 4326	Health Communication	3
MC 4322	Health Communication Campaigns	3
COMM 2315	Interpersonal Communication	3
	or COMM 2330 Small Group Communication	
Select two of the following:		6
COMM 3318J	Communication in Health Organizations	
COMM 3319	Introduction to Organizational Communication	
COMM 3325	Communication and Conflict Management	
COMM 3326	Family Communication	
COMM 3328	Communication and Gender	
COMM 3329	Intercultural Communication	
COMM 3330	Nonverbal Communication	
COMM 3358	Professional Communication	
COMM 4324	Organizational Rhetoric	
COMM 4329	Communication Training and Human Resource Development	
COMM 4331	Persuasion	
COMM 4345	Political Communication	
COMM 4347	Leadership and Communication	
COMM 4351	Relational Communication	
COMM 4390	Communication Internship	
Select two of the following:		6
HA 3308	Healthcare Organization	

HA 3309	Ethics in the Health Professions	
HA 3315	Healthcare Administration History, Culture, and Language	
HA 3341	Training and Professional Development in Healthcare	
HA 4320	Seminar in Healthcare Administration	
MC 3355	Mass Media and Society	
MC 3343	Introduction to Public Relations	
MC 4309	Visual Literacy: Film	
PSY 3361	Health Psychology	
PSY 3315	Abnormal Psychology	
PSY 3325	Psychology of Persuasion	
PSY 3300	Lifespan Development	
PSY 3331	Social Psychology	
PSY 3333	Industrial Psychology	
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Total Hours		21

If a student elects to minor in either Communication Studies or Health Communication, no COMM or HA course may count for a major and a minor.

## Minor in Leadership Studies

A minor in Leadership Studies is interdisciplinary and requires 21 hours, including courses from the following departments Communication Studies, Management, Agriculture, Philosophy, Aerospace Studies, Psychology, and Health Administration. The three required core courses are COMM 2315, COMM 4347, and PHIL 3322. In addition, students select two courses (6 hours) which emphasize leadership skill development and two courses (6 hours) which provide a theoretical or conceptual approach to leadership. All students in this minor will be advised by the Department of Communication Studies. Students entering the program will be contacted by the department and will be required to see an advisor before selecting elective courses.

### Core Courses

COMM 3330	Nonverbal Communication	3
COMM 4347	Leadership and Communication	3
PHIL 3322	Professional Ethics	3

### Skill Development

Select two of the following:		6
COMM 3345	Argumentation and Debate	
COMM 2330	Small Group Communication	
COMM 2338	Public Speaking	
COMM 3325	Communication and Conflict Management	
COMM 3358	Professional Communication	
COMM 4329	Communication Training and Human Resource Development	
COMM 4390	Communication Internship	
MGT 3353	Business Communication	

### Theoretical Concepts or Approaches

Select two of the following:		6
COMM 3319	Introduction to Organizational Communication	
COMM 4331	Persuasion	
COMM 4324	Organizational Rhetoric	
COMM 4390	Communication Internship	



HA 3309	Ethics in the Health Professions	
HA 3324	Supervisory Management for Healthcare Managers	
PSY 3331	Social Psychology	
PSY 3333	Industrial Psychology	
MGT 3303	Management of Organizations	
A S 3311	Leadership and Management I	
A S 3312	Leadership and Management II	
Total Hours		21

If a student elects a minor in Leadership Studies, no COMM or other course from the listed discipline may count both for a major and a minor.

## Minor in Political Communication

A minor in Political Communication addresses a variety of theories, principles, and skills related to the political communication process. The minor is designed for students interested in law, politics, public administration, public policy, or other professions related to issues and ideas in a political communication context.

A minor in Political Communication requires 24 hours, which includes 12 hours from the Department of Communication Studies and 12 hours from the selected courses from the Department of Political Science.

Code	Title	Hours
<b>Required course</b>		
COMM 4345	Political Communication	3
<b>Department of Communication Studies courses</b>		
Select nine hours from the following:		9
COMM 3345	Argumentation and Debate	
COMM 2338	Public Speaking	
COMM 3302	Rhetorical Research Methods	
COMM 4307	Media Criticism	
COMM 4321	American Speeches	
COMM 4322	Rhetoric of Protest Movements	
COMM 4324	Organizational Rhetoric	
COMM 4331	Persuasion	
COMM 4338	Advanced Public Speaking	
COMM 4390	Communication Internship	
<b>Department of Political Science courses</b>		
Select three hours from the following:		3
POSI 3331	American Political Thought	
POSI 3332	Ancient and Medieval Political Thought (Greeks to 1600)	
POSI 3333	Modern Political Theory (1600-1900)	
POSI 3334	Contemporary Political Theory	
Select three hours from the following:		3
POSI 3305	The American Founding	
POSI 3306	Religion and American Public Life	
POSI 3307	Parties and Party Politics	
POSI 3310	Constitutional Law: Basic Structures and Principles	
POSI 3311	Constitutional Law: Individual Liberties	
POSI 3314	State and Local Government	
POSI 4301	Politics in Film	

POSI 4302	Legal Theories and Research	
POSI 4322	Public Policy Formulation	
POSI 4331	Minority Politics	
POSI 4336	Campaigns and Elections	
POSI 4345	American Foreign Policy	
Select three hours from the following:		3
POSI 3308	Congress and the Legislative Process	
POSI 3309	The American Presidency	
POSI 4311	The Supreme Court and the Judicial Process	
Select three hours from the following:		3
POSI 4313	Islamic Law and Politics	
POSI 4314	Revolution and Nationalism	
POSI 4315	The Arab-Israeli Conflict	
POSI 4326	Issues in World Politics	
POSI 4327	Theories of International Politics	
POSI 4338	Government and Politics of Latin America	
POSI 4340	Government and Politics of Europe	
POSI 4341	Government and Politics of Russia	
POSI 4350	Government and Politics of Asia	
POSI 4351	African Politics	
POSI 4357	International Organization	
POSI 4358	United States-Latin American Relations	
POSI 4359	Politics of International Economic Relations	
POSI 4340	Government and Politics of Europe	
Total Hours		24

If a student elects to minor in either Communication Studies or Political Science, no COMM or POSI course may count both for a major and a minor.

## Second Teaching Field in Speech (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Speech, the requirements are:

COMM 1310	Fundamentals of Human Communication	3
COMM 2315	Interpersonal Communication	3
COMM 2326	Interpretive Reading	3
COMM 2330	Small Group Communication	3
COMM 2338	Public Speaking	3
COMM 3345	Argumentation and Debate	3
COMM 4310	Methods of Teaching Communication Studies	3
COMM 4320	Planning Communication Studies Activities and Events	3
COMM advanced electives		3
Total Hours		27

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## School of Journalism and Mass Communication

Old Main Building Room 102

T: 512.245.2656 F: 512.245.7649  
www.masscomm.txstate.edu (<http://www.masscomm.txstate.edu>)

The School of Journalism and Mass Communication is an ACEJMC accredited program that offers a curriculum that introduces students to the broad framework of mass communication, emphasizing what is common and fundamental to advertising, electronic media, journalism and public relations.

The mission of the School of Journalism and Mass Communication is to pursue excellence. Our programs strive to cultivate strong professional, research, theoretical, critical and ethical skills in a diverse and engaging environment that prepares students to be socially responsible media professionals, scholars and citizens. Students may earn a Bachelor of Arts in Mass Communication or a Bachelor of Science degree with a major in Advertising and Mass Communication, Digital Media Innovation and Mass Communication, Electronic Media and Mass Communication, Journalism and Mass Communication, or Public Relations and Mass Communication.

Students may gain experience by working in student media, such as the *University Star*, KTSW 89.9 FM, *Bobcat Update*/Channel 23 News, Bobcat Promotions, and through internships outside the school. They also have the opportunity to participate in intercollegiate competitions through organizations such as the American Advertising Federation, Public Relations Society of America, Texas Intercollegiate Press Association, National Broadcast Society, and the Society of Professional Journalists.

To earn a Bachelor of Science degree students must complete 120 semester hours, which includes the general education core curriculum requirements, B.S. support coursework requirements, 40 hours in the major, and a minor outside the school. No more than 48 hours of Mass Communication may be counted toward degree requirements. Due to ACEJMC accrediting standards at least 72 hours of the total degree must be outside of MC prefix courses. As a result no more than 48 hours of Mass Communication coursework may be counted toward the minimum 120 hours degree requirements. Students should keep this in mind when considering minor, concentration and open elective options.

To earn a Bachelor of Arts degree in Mass Communication, students must complete 120 semester hours, which includes the general education core curriculum requirements, B.A. degree requirements, 33 hours in Mass Communication, and a minor outside the school. No more than 48 hours of Mass Communication may be counted toward the minimum 120 hour degree requirements.

For the B.S. degree community college transfer students may apply no more than 13 semester credit hours of mass communication transfer courses to their degree. Transfer students from four-year institutions may apply no more than 19 semester credit hours of mass communication transfer courses to their degree. Regardless of transfer coursework at least 21 hours of the major coursework must be earned at Texas State.

For the B.A. degree community college transfer students may apply no more than 12 semester credit hours of mass communication transfer courses to their degree. Transfer students from four-year institutions may apply no more than 15 semester credit hours of mass communication transfer courses to their degree.

At the Round Rock Campus only the Bachelor of Arts major in Mass Communication degree program is offered. Students majoring in other programs in the School of Journalism and Mass Communication may find some course offerings at the Round Rock Campus. Contact the School of Journalism and Mass Communication at 512-245-2656 or the

One Stop Center at the Round Rock Campus at 512-716-4001 for more information.

## Field of Study

The School of Journalism and Mass Communication (SJMC) will accept up to a 13 hour SCH block of coursework from the Communication Field of Study\* from Texas two-year colleges towards any major in the SJMC. The SJMC will accept up to a 19 hour SCH block of coursework from Texas four-year colleges and universities towards any BS major in the SJMC and up to a 13 hour SCH block of coursework towards the BA major in the SJMC.

\* Coursework from the first three sub-areas of the Communication field of study. These are (1) Advertising/Public Relations, (2) Journalism/Mass Communication and (3) Radio & Television Broadcasting/Broadcast Journalism. The curriculum in the fourth sub-area of Communication falls under another major and degree program at Texas State and would be applied to that major and degree accordingly, but not to degree programs in the SJMC.

## Special Requirements

- Any student admitted to Texas State may declare and be admitted to the program under a temporary status called pre-mass communication. Once a student has accumulated at least thirty credit hours and meets the requirements outlined below, the student will be admitted to the school in full-major status. Students who fail to meet these requirements will not be admitted to the major.
  - An overall GPA of at least a 2.5 on a 4.0 scale.
  - A grade of a "C" or higher in the following courses or their equivalents:

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
COMM 1310	Fundamentals of Human Communication	3
MC 1100B	Grammar for Journalists <sup>1</sup>	1
MC 1301	Introduction to Mass Communication	3

<sup>1</sup> Note: Or a score of 70 or higher on the school's Punctuation, Usage and Grammar (PUG) test.

- General education core curriculum options should be discussed with an academic advisor. Requirements and choices are listed in the Academic Services section.
- The Punctuation, Usage and Grammar (PUG) test is given by the Texas State Testing, Research-Support and Evaluation Center on the main campus. The PUG is administered weekly; call 512.245.2276 for testing times. There is a fee of \$40 per test. Students enrolled at the Round Rock Campus should call the One Stop Center at (512) 716-4000 for testing information.
- In an effort to promote the academic welfare of all Mass Communication students, the school strongly recommends that all students seek academic advising each semester. In certain situations, students may have an advising hold placed on their records. Advisors are available year round to assist students with academic issues and concerns. Students can call 512-245-1932 to make an advising appointment.
- All students must earn a "C" or higher in each of four core courses in Mass Communication, which include:

MC 1301	Introduction to Mass Communication	3
MC 1313	Media Writing	3

MC 4301	Media Law and Ethics	3
MC 4381	Fundamentals of Digital and Online Media	3

6. Students must earn a “C” or higher in all prerequisite courses and courses below, as listed by major:

#### Advertising and Mass Communication

MC 1313	Media Writing	3
MC 3367	Advertising	3
MC 3372	Advertising Media Planning	3
MC 4316G	Advertising Copywriting and Layout I	3
MC 4317	Account Planning	3

#### Electronic Media and Mass Communication

MC 1313	Media Writing	3
MC 3306	Writing for the Electronic Media	3
MC 3311	Video Production	3
or MC 4324	Visual Storytelling	

#### Journalism and Mass Communication

MC 1313	Media Writing	3
MC 3321	News Writing and Reporting I	3

#### Public Relations and Mass Communication

MC 1313	Media Writing	3
MC 3343	Introduction to Public Relations	3
MC 3383	Editing for Clear Communication	3
MC 4313	Writing for Public Relations	3
MC 4320	Public Relations Campaigns	3

#### Mass Communication

MC 1313	Media Writing	3
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Students are required to submit a senior portfolio and complete a senior exam before they graduate. Please click the following link for more information about the senior portfolio. <http://www.masscomm.txstate.edu/resources/advising/forms>

## Mass Communication Majors

In addition to core MC courses, the school offers courses to prepare students for work within all areas of mass communication. Students may concentrate their study in Advertising, Electronic Media, Journalism or Public Relations, or elect a general Mass Communication course of study.

For B.S. degrees, students must complete an additional 28 hours. For B.A. degree, students must complete an additional 21 hours. Students should see a Mass Communication academic advisor for assistance in planning their programs in these areas of study.

## Advertising and Mass Communication

The Advertising (B.S.) sequence aims to help students sharpen their creativity and learn how to solve clients' problems. To the end, the Advertising sequence offers courses that cover the major job descriptions of advertising, such as account management, creative, and media. From the courses, students will get exposed to various issues in the field and learn the skills that are needed to become professional. Further, students will have opportunities to participate in extracurricular activities designed to train and prepare students for the job market through AAF (American Advertising Federation) student advertising competition and Ad Club.

## Digital Media Innovation and Mass Communication

The Digital Media Innovation (B.S.) sequence immerses students in the breadth of digital knowledge to prepare them for new and emerging media roles. These roles, requiring advanced technology skills and digital perspective, include news application developers, multimedia experience producers, social media editors, engagement managers and data analysts, and can include positions in traditional media organizations, technology companies and media start-ups. Students in this sequence focus on digital strategy and experimentation associated with new models of storytelling and innovative applications of media.

## Electronic Media and Mass Communication

The Electronic Media (B.S.) sequence offers courses designed to prepare students for careers in broadcasting, cable, satellite and new media. The courses emphasize journalism, audio and video production, management, and programming by combining skills instruction with decision-making opportunities, which students put into practice while working for student media. Electronic media sequence students receive hands-on experience while working for radio station KTSW, a cable access television channel, and online. Students are also encouraged to seek internships in professional media organizations off-campus.

## Mass Communication

The Mass Communication (B.A.) sequence emphasizes theory and research for students interested in graduate school and also provides flexibility for students to study other areas of mass communication.

## Journalism and Mass Communication

The Journalism (B.S.) sequence prepares students to be reporters, editors, designers and visual journalists. An emphasis is placed on writing and multimedia skills. Students are encouraged to work with campus media outlets, including the University Star newspaper, and to seek internships with media organizations off campus.

## Public Relations and Mass Communication

Based on the skills of writing, graphics and internet tools, Public Relations (B.S.) students learn to develop strategies to effectively communicate carefully designed messages to audiences important to their organizations. Students have opportunities to practice their skills in Bobcat PRomotions, the student-run public relations agency, and in internships in Texas and major cities in the United States.

## Concentrations in Digital Media and Multimedia Production

Any student pursuing a B.S. degree in the School of Journalism and Mass Communication may elect to add a concentration in Digital Media or Multimedia Production. Students who elect to add a concentration can apply the 9 hour concentration towards the 12 hours of advanced MC electives required of the B.S. degree.

## Bachelor of Arts (B.A.)

- Major in Mass Communication (p. 248)

## Bachelor of Science (B.S.)

- Major in Advertising and Mass Communication (p. 249)
- Major in Advertising and Mass Communication (Digital Media Concentration) (p. 250)
- Major in Advertising and Mass Communication (Multimedia Production Concentration) (p. 250)
- Major in Digital Media Innovation and Mass Communication (p. 251)
- Major in Digital Media Innovation and Mass Communication (Multimedia Production Concentration) (p. 252)
- Major in Electronic Media and Mass Communication (p. 252)
- Major in Electronic Media and Mass Communication (Digital Media Concentration) (p. 253)
- Major in Electronic Media and Mass Communication (Multimedia Production Concentration) (p. 254)
- Major in Journalism and Mass Communication (p. 254)
- Major in Journalism and Mass Communication (Digital Media Concentration) (p. 255)
- Major in Journalism and Mass Communication (Multimedia Production Concentration) (p. 256)
- Major in Public Relations and Mass Communication (p. 256)
- Major in Public Relations and Mass Communication (Digital Media Concentration) (p. 258)
- Major in Public Relations and Mass Communication (Multimedia Production Concentration) (p. 257)

## Minors

- Journalism
- Mass Communication
- Second Teaching Field in Journalism (Grades 8-12)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Mass Communication (MC)

### MC 1100A. Careers in Media.

Students engage in career exploration in the media professions

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100B. Grammar for Journalists.

Students refine their English grammar skills to a proficiency level needed to be successful journalists

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100C. Seminar in Sports Broadcasting.

Students will engage in sports broadcasting and reporting activities. These activities will be completed through in-class and field-based experiences of at least 15 hours. Students will further develop their writing, broadcasting and interviewing skills

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100D. Digital Entrepreneurship.

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100E. Digital Media Tools and Skills.

This course will explore new tools and skills relevant to the digital age. Topics will include data visualization, spreadsheet usage, media creation software, mobile reporting, drones and sensors in journalism and video editing. May be repeated once for credit. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100F. Digital Media Innovation Concepts.

This course will explore new concepts relevant to the digital age. Topics will include digital media history, ethics, law and will address online privacy, security, crime, identity and censorship. May be repeated once. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100G. Coding Workshop.

This course will explore programming languages relevant to the digital age. Topics will include JavaScript, JQuery, Python, PHP, application programming interfaces, database languages, application development frameworks and other current topics. May be repeated once. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100H. Career Exploration: Destination America.

This career exploration course allows mass communication students to visit and network with media professionals in the United States under the direction of faculty. The career development trip focuses on outlets in media centers in the United States such as: New York, Chicago, Seattle and San Francisco. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### MC 1100I. Fundamentals of Layout and Design.

Students will learn desktop publishing basics using Adobe Creative Suite's InDesign. The course will cover topics including creating documents for print or digital use, mastering tools required to create a simple page layout consisting of text and imagery and preparing files for review or publication. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MC 1100J. Editing and Enhancing Digital Imagery.**

Students will learn how to edit, enhance, and create digital imagery for print and web use. Adobe Creative Suite's Photoshop will be used for photos and pixel-based images. Students will use Illustrator to work with illustrations and vector-based images. Prerequisite: Full major status  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1301. Introduction to Mass Communication.**

A survey of the mass media and other areas of mass communication designed to acquaint the student with the field of communication and what it offers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COMM 1307

**MC 1313. Media Writing.**

This course is an introduction to the major forms of Media Writing: electronic media, journalism, public relations and digital. Prerequisite: Full major status and typing skill. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** COMM 2311

**MC 2111. Media Practicum.**

Students perform supervised media work of at least 60 hours for the semester. Credit requires prior written contract with a supervising faculty member. May be repeated twice. Graded on a credit (CR), no-credit (F) basis. Prerequisite: Minimum 2.0 Overall GPA and good academic standing

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MC 3306. Writing for the Electronic Media.**

The study and practice of writing copy for the electronic media, including the composition of commercials, news stories, public service announcements, promotions and documentaries. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3307. Audio Production.**

The basics of digital audio production with emphasis on techniques used in producing commercials, public service announcements and promotions. Lab requirements include a regular air-shift on the campus radio station and structured group meetings. Restricted to full major status

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 3311. Video Production.**

Basics of analog and digital video production. Emphasis on techniques used in producing newscasts, commercials, public service announcements, promotions. Lab requirements include field and studio production. Prerequisite: Full major status

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 3312. Television News.**

Standard theory and practice of electronic news gathering and production, including writing copy to match video and synchronization of audio and video in news stories. Students work on a campus news program. Prerequisites: Full major status, MC 3306 and MC 3311 or MC 4356I. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3319. Visual Communication.**

This course studies the principles, theories, and language of visual communication, emphasizing the evaluation and use of images in mass media. It is designed to help you integrate words and pictures in mass communication and to gain a greater appreciation of our visual world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3321. News Writing and Reporting I.**

Integrating writing and reporting skills to produce stories across media platforms, including print and online, with an emphasis on storytelling. The study of techniques for locating and assessing information from multiple sources, including interviewing, fact verification, online research and the use of libraries. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3343. Introduction to Public Relations.**

This is the introductory course for the public relations sequence. Students will explore the functions of public relations in the digital age in the development of strategic communications for corporations, companies, government offices, non-profit organizations and public relations agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3355. Mass Media and Society.**

This course offers an examination of the roles of the mass media in American society, including an analysis of the philosophical basis of media structure; mass media as business; media effects of public issues, morals and tastes; and other contemporary issues within a global media context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3360. Public Relations Research.**

Students will study the principles, techniques and problems of social science research and digital analytics as they relate to the planning and evaluation of strategic communication. Prerequisite: Full major status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3367. Advertising.**

A broad overview of advertising including history, role and responsibility, and impact of the digital revolution. Key topics will be research, account service, media planning, creative, sales promotion, public relations, campaigns, and the advertising agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MC 3368. Advertising Copywriting.**

Study of writing and producing advertising copy for print, broadcast and digital media. Emphasis on formative research, market and consumer analysis and the creative process. Prerequisites: Full-major status, MC 1313, MC 3367. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3372. Advertising Media Planning.**

Study of planning and buying messages in traditional and new media to creatively and effectively reach targeted prospects. Attention is given to media characteristics, scheduling, testing and buying efficiencies. Prerequisites: Full major status, MC 1313, MC 3367, and MC 4317 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3373. Broadcast Commercial and Promotion Writing.**

Writing and producing radio scripts and television storyboards for commercial messages. Study will include audiences, programming, research and copytesting, and regulations. Spot announcements will be produced for class. Prerequisites: Full major status, MC 1313, 3367. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3375. Programming in Electronic Media.**

Study of the principles and strategies of winning audiences for the electronic media: television radio, cable, satellite and the internet

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3379. Advertising and Public Relations Management.**

Study of managerial problems in advertising and public relations programs. Case study approach to setting goals, developing strategy, budgeting and working in a client-agency relationship. Prerequisites: Full major status, MC 1313, MC 3343 or MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3383. Editing for Clear Communication.**

A course designed to help writers divorce themselves from the creative process and function as editors of their own work and the work of others, focusing on meaning, accuracy, logic, language, sense, organization, style, and form appropriate to audience and medium. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3390. Media Design.**

Study and application of advanced principles of media design including: basic design principles, typography, color, photography, video, and multimedia. Students will learn production skills for existing and new media. Pre-requisite: Full-major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Lab Required|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MC 3394. Management of Electronic Media.**

The study of the management of electronic media, including sales, federal regulation, and responsibilities to society, community and stockholders. Prerequisite: Full major status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4130. Internship.**

This course requires a minimum of 100 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**1 Credit Hour. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 4230. Internship.**

This course requires a minimum of 150 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**2 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4301. Media Law and Ethics.**

This course offers a study of law governing journalism, advertising, electronic media and public relations. Restricted to full major status and junior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4302. History of Mass Media.**

Students will study the development of mass media, advertising and public relations in the United States from 1690 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4303. International Advertising.**

Overview of international marketing and advertising; problems and opportunities of a global economy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4304. Advertising Strategy and Execution-Portfolio.**

Course emphasizes projects that allow students to learn how to produce and display professional portfolios to enhance their employment opportunities. Prerequisites: Full major status, MC 1313, MC 3367

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 4305. Theories of Mass Communication.**

A study of the predominant theories of communication, including mass media effects, functions and controls. Prerequisites: Full major status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4306. Advertising Competition.**

The course will focus on developing an integrated marketing communications campaign for a national client as part of the National Student Advertising Competition. Students will create a campaign from the developmental through the execution process. Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4307. Advertising Campaigns.**

Students will develop, coordinate and evaluate a complete advertising campaign for specific clients. Students will conduct market research, formulate objectives and strategies, recommend media plans and develop creative executions through plans books and presentations. Prerequisites: Full major status, MC 4316G, MC 4317, MC 3372. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4308. Women and Minorities in the Media.**

Analysis of the images of women and minorities in the media and their status as media professionals. Includes study of the alternative media. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 4309. Visual Literacy: Film.**

The course will teach how meaning is constructed in visual images by using film as a practical medium. It provides the necessary skills to critique and create effective images. It is especially useful for students majoring in image-based sequences of the mass communication major, particularly broadcasting and advertising

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4310. International Communication.**

A study of media systems worldwide in different socioeconomic contexts and an examination of patterns of international communication flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4311. Independent Study: Advertising, Broadcasting, Print Journalism, Public Relations.**

Students complete an academic project requiring the equivalent of 160 hours work. Requires prior written contract with faculty member and portfolio of completed work. Cannot be repeated. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MC 4312. Photojournalism.**

Students will develop skills in camera operation, learn computer software applications, learn how to combine words with stories, and how to make layouts and designs for print and multimedia. Students will learn basic analog and digital camera operations, and how to process digital images for the Web and for printing. Restricted to full major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4313. Writing for Public Relations.**

This course provides an examination and application of digital and traditional communication tools required for effective public relations. Emphasis is placed on the strategic use of digital media in a modern communication society. Prerequisites: Full major status, MC 1313 and MC 3343. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4315. Web Design Publishing.**

Students will develop skills in web page construction including Web editing, image and graphic manipulation, animation, and audio and video editing. The course will cover the topics of design, content, and accessibility, as well as important social and ethical issues associated with online publishing. Prerequisite: Full-major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4316D. Advertising Media Sales.**

An overview of advertising, media selling, and salesmanship, sales strategies, sales management, and case histories designed to acquaint students with a vital function of the business. Prerequisites: Full major status, MC 1313, MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4316G. Advertising Copywriting and Layout I.**

This course is an introduction to the basic elements of using visual and verbal elements in print, broadcast and internet advertising to solve advertising communication problems. Prerequisites: Full major status, MC 1313, MC 3367, and MC 4317

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4316H. Advertising Copywriting and Layout II.**

This is an advanced copywriting and ad layout class. Using the skills learned in MC 4316G, students will expand their digital techniques, art directions skills and writing capabilities to create professional level ad campaigns. Prerequisites: Full-major status and MC 4316G

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4317. Account Planning.**

Hands-on introduction to applied advertising research and account planning. Primary, survey and qualitative research methods are designed, executed and presented by students for the purpose of integrating the consumer's perspective into creative strategy. Prerequisites: Full-major status, MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4318. Media Ethics.**

The study of freedom and responsibilities of the mass media practitioners and institutions, explored within the framework of ethical theories. Consideration of values, codes of ethics, moral development, professionalism and institutional constraints as applied to the media of information, persuasion and entertainment will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4319. Latinas/Latinos and the Media.**

The course focuses on demographic developments related to Latinos in the US; their portrayals in the media; the effects those portrayals; the history and current status of selected Latino-oriented media and ancillary media companies and organizations; and the role of the media in Latino politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4320. Public Relations Campaigns.**

A comprehensive study of effective public relations in a modern society. Students learn the professional approach to the practice of public relations that includes internet applications and how to evaluate its function and value while applying ethical standards of conduct.

Prerequisites: Full major status; MC 3360 and MC 4313; and one course from MC 3390, MC 4315, or MC 4326. Minimum grades of "C" are required in all prerequisites. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4321. News Writing and Reporting II.**

Integrating the techniques of investigative and in-depth writing and reporting across media platforms, including print and online. The study of techniques for computer-assisted reporting, database reporting, access to governmental or corporate records and the use of open records laws.

Prerequisites: Full major status, MC 3321. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4322. Health Communication Campaigns.**

This class will provide an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. We will examine persuasive approaches to behavioral change; audience, message and channel factors in campaign development. Our work will emphasize communication approaches, including mass media, social marketing and "new media."

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4323. Multimedia Journalism.**

Students will be introduced to topics related to online journalism. Topics covered will include the online journalism profession, Web credibility, online reporting sources, cyberlaw including libel and copyright, blogging and podcasting, and basic multimedia design. Students will both critique and create online materials. Prerequisites: Full-major status, MC 1313 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4324. Visual Storytelling.**

This course is an introduction to basic elements of video journalistic storytelling for today's converged newsrooms. Students gather information using journalism practices, such as in-person interviews, and learn to use video newsgathering technologies to produce stories for online and other digital platforms. Prerequisite: Full-major status

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4325. Coding and Data Skills for Communicators.**

Students are introduced to programming and data concepts relevant to communicators. Data visualization and storytelling tools and techniques are covered as related to journalism, advertising and public relations.

Prerequisites: Full-major status, MC 4315 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4326. Advanced Social Media and Analytics.**

This course will provide students with an advanced understanding of social media, marketing plans and social media analytics. Students will build company and/or journalistic profiles on social networks - Facebook, Twitter, Pinterest, YouTube, Instagram and more - to engage with audiences and communities and utilize analytical tools to track success. Prerequisites: Full-major status, MC 4381 with a grade of "C" or higher

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 4327. Mobile Media and Development.**

This course will introduce students to mobile communication and production that is relevant to mass communication. As mobile devices are a vital communication medium in our everyday life, it is essential to understand how mobile communication works and how to effectively produce online content for mobile devices. Prerequisites: Full-major status, MC 4315 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4328. Digital Media Innovation Capstone.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology. Prerequisites: Full-major status, MC 4315 and MC 4382U or MC 4326 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4330. Internship.**

This course requires 180 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 4336B. Documentaries.**

A course in reporting and production of comprehensive public affairs and feature stories for the electronic media. Prerequisite: MC 3312. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4336E. Code Camp I.**

Students are immersed in programming concepts relevant to communicators. Students will practice document object model manipulation using JavaScript and JQuery to create interactive Web projects

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4336F. Code Camp II.**

Students are immersed in data and visualization concepts relevant to communicators. Students will create interactive data visualization projects to be presented on the Web

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4356A. Science Writing and Reporting.**

Students learn to interpret complex concepts and present accurate, engaging news and feature stories about the latest research.

Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4356B. Editorials, Columns, and Reviews.**

The study and writing of newspaper, magazine and online editorials, columns, and books, film and music reviews. Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356C. Community Affairs.**

A lecture-discussion course, dealing with the coverage of local economy and business, government and social services functions as well as political activities like elections and lobbying efforts. Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356F. Feature Writing.**

A course designed to expose students to the art of feature writing through the study of acclaimed works of literary journalism. Students will develop a narrative voice of their own while studying and analyzing the techniques of a diverse group of writers. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356G. Magazine Writing.**

This course introduces students to long form nonfiction writing for magazines. Crafting longer pieces requires a honed set of skills that includes deft interviewing and observation, an understanding of structure and pace and powers of discernment and nuance. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4357. Sports as News.**

This course emphasizes the reporting, writing and production of content for both print and electronic media. Students will interview players, coaches and administrators of collegiate athletics and work with media professionals to better understand challenges and demands of contemporary sports coverage. Prerequisites: Full-major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4376C. Public Relations Case Studies.**

Public Relations Case Studies will seek, with case studies and problems, to help future practitioners develop agility in the principles and the application of effective two-way communications in a wide variety of situations likely to confront them and their employers. Prerequisites: Full major status, MC 1313, MC 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4376D. Public Relations Writing & Design.**

Students will gain a broad understanding of the wide range of print publications and writing assignments found in public relations. They will learn how to research, organize, write and design a variety of print pieces for targeted audiences using a popular design and layout program. Prerequisites: Full major status, MC 1313, MC 3343. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4376E. Public Relations Fundraising and Special Events.**

This specialized course deals with the development and implementation of fundraising. Topics include grants, special events, and annual/capital campaigns. Prerequisites: Full major status; MC 1313 and MC 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4376F. International Strategic Communication.**

This course will explore advertising and public relations practices in foreign countries through readings, discussion and site visits within media organizations in foreign countries. Marketing practices abroad will be compared to those in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MC 4381. Fundamentals of Digital and Online Media.**

Students will be introduced to topics related to digital/online media and mass communication. Course covers the effects of the Internet and related technologies on the fields of journalism, interactive advertising and public relations, search engines, personal branding, social networking and mobile platforms

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 4382L. Feature Writing and Freelancing.**

This course is designed to introduce students to the technical expertise, research methods, interviewing skills and narrative techniques pertinent to feature writing. The course also explores how to target a feature story to a specific audience and how to submit feature stories for publication to newspapers and magazines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4382N. Seminar in American Journalism: National Writers Workshop.**

This is a seminar in current issues in American journalism. National Writers Workshops bring together journalists to discuss issues in the industry and offer sessions on many media topics. Prior to the NWW we will study the literary form used by presenters and the issues being presented at the workshop

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382O. Travel Journalism.**

Exploration of techniques of writing journalistic travel narratives for the media. The course may involve travel at the student's own expense

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4382Q. Media in Asia and Southeast Asia.**

This course will study media systems in Asia and Southeast Asia and examine the different socioeconomic contexts and patterns of information flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382R. Media Violence.**

This course examines the relationship between exposure to media violence (TV, movies, video games) to aggressive behavior. It will introduce you to the most important published research in this study area as well as to the continuing controversy as to how, or even whether, media violence leads to aggressive behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382W. Digital Media Innovation Capstone.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382X. Sports Media.**

Sports Media explores the synergy among sports, athletes, media, public relations, advertising-marketing-promotion, and sports information, disciplines and audiences in a multiplatform media environment. Through class activities and practical experiences, students analyze media - newspapers, magazines, books, movies, radio, TV, online, forums, blogs and social media - in relationship to the sports industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382Y. Mobile Storytelling in the Park.**

This course will explore new tools and skills relevant to the digital age, particularly the usage of smart phones in storytelling. Students will use those skills to produce video content as part of a weekend in a state park

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4386. Journalism Project.**

This is a senior portfolio course integrating a variety of journalism skills to produce a substantial work ready for publication online and in print. Students will combine elements of writing and visual storytelling to produce an original collection of journalism. Prerequisites: Full major status, MC 3321. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Mass Communication

### Minimum required: 120 semester hours

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Life and Physical Sciences	3
Social and Behavioral Sciences	3
	<b>31</b>
Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3



MC 1313	3
MC 3355	3
Life and Physical Sciences	3
Modern Language 1410	4
Modern Language 1420	4
HIST 1310	3
HIST 1320	3
	29

<b>Junior</b>	<b>Hours</b>
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Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	

MC 3360	3
MC Elective	3
Select one of the following:	3
MC 3319	
MC 3311	
MC 3390	
MC 4304	
MC 4312	
MC 4309	
MC 4315	

Minor	6
Modern Language 2310	3
Modern Language 2320	3
SOCI 3307	3
English Literature	3
	30

<b>Senior</b>	<b>Hours</b>
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MC 3383	3
MC 4305	3
MC 4301	3
MC Elective	3
Minor	12
Free Electives	6
	30

Total Hours: 120

## Bachelor of Science (B.S.) Major in Advertising and Mass Communication

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1

POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31

<b>Sophomore</b>	<b>Hours</b>
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English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3367	3
Life and Physical Sciences	6
MC Elective	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30

<b>Junior</b>	<b>Hours</b>
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Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
English Literature	3
MC 4316G	3
MC 4317	3
MC 3372	3
Minor	9
MC Elective	3
MC Advanced Elective	3
	30

<b>Senior</b>	<b>Hours</b>
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MC 4307	3
MC Advanced Elective	3
MC 4301	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
	29

Total Hours: 120

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

## Bachelor of Science (B.S.) Major in Advertising and Mass Communication (Digital Media Concentration)

### Minimum required: 120 semester hours

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3367	3
Life and Physical Sciences	6
MC 4315	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30
Junior	Hours
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
English Literature	3
MC 4316G	3
MC 4317	3
MC 3372	3
Minor	9
Select six hours from the following:	6
MC 1100D	
MC 1100E	
MC 1100F	
MC 3390	
MC 4323	3
MC 4324	3

MC 4325	3
	39
Senior	Hours
MC 4307	3
MC Elective	3
MC 4301	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
	29

Total Hours: 129

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

## Bachelor of Science (B.S.) Major in Advertising and Mass Communication (Multimedia Production Concentration)

### Minimum required: 120 semester hours

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3367	3
Life and Physical Sciences	6
MC 3319	3

HIST 1310	3
HIST 1320	3
SOCI 3307	3

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30

**Junior** **Hours**

Computer Science, Life and  
Physical Sciences, or Mathematics<sup>1</sup> 3

English Literature 3

MC 4316G 3

MC 4317 3

MC 3372 3

Minor 9

Select two of the following: 6

MC 3311

MC 3312

MC 3390

MC 4312

MC 4324 3

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33

**Senior** **Hours**

MC 4307 3

MC Elective 3

MC 4301 3

Select one of the following: 1

MC 1100A

MC 1100B

MC 1100C

MC 2111

MC 4130

Minor 9

Free Electives 10

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29

Total Hours: 123

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

## Bachelor of Science (B.S.) Major in Digital Media Innovation and Mass Communication

**Minimum required: 120 semester hours**

**Freshman** **Hours**

COMM 1310 3

ENG 1310 3

ENG 1320 3

Mathematics<sup>1</sup> 3

US 1100 1

POSI 2310 3

POSI 2320 3

MC 1301 3

MC 4381 3

Select one of the following: 3

ART 2313

DAN 2313

MU 2313

TH 2313

Social and Behavioral Sciences 3

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31

**Sophomore** **Hours**

English Literature 3

PHIL 1305 or 1320 3

MC 1313 3

MC 4315 3

Life and Physical Sciences 6

MC Elective 3

HIST 1310 3

HIST 1320 3

SOCI 3307 3

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30

**Junior** **Hours**

English Literature 3

Computer Science, Life and  
Physical Sciences, or Mathematics<sup>1</sup> 3

MC 4326 3

Minor 9

Select two of the following: 6

MC 3390

MC 4336B

MC 4323

MC 4324

MC 4325

MC 4327

MC Elective 3

Free Electives 3

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30

**Senior** **Hours**

MC 4328 3

MC 4301 3

MC Advanced Electives 6

Select one of the following: 1

MC 1100A

MC 1100B

MC 1100C

MC 1100D

MC 1100E

MC 1100F

MC 1100G

MC 2111

MC 4130

Minor 9

Free Electives	7
	29

Total Hours: 120

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Digital Media Innovation and Mass Communication (Multimedia Production Concentration)

Minimum required: 120 semester hours

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31

Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 4315	3
Life and Physical Sciences	6
MC 3319	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30

Junior	Hours
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 4326	3
Minor	9
Select two of the following:	6
MC 3390	
MC 4336B	

MC 4323	
MC 4324	
MC 4325	
MC 4327	
MC Elective	3
Free Electives	3
	30

Senior	Hours
MC 4328	3
MC 4301	3
Select two of the following:	6
MC 3311	
MC 3312	
MC 3390	
MC 4312	
MC 4324	
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 1100D	
MC 1100E	
MC 1100F	
MC 1100G	
MC 2111	
MC 4130	
Minor	9
Free Electives	7
	29

Total Hours: 120

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Electronic Media and Mass Communication

Minimum required: 120 semester hours

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	

DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3311 or 4323	3
Life and Physical Sciences	6
MC Elective	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30
<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3306	3
MC 3394	3
Minor	9
MC Advanced Elective	3
MC Elective	3
Free Elective	3
	30
<b>Senior</b>	<b>Hours</b>
MC 3312	3
MC 4301	3
Select one of the following:	3
MC 3307	
MC 3375	
MC 4315	
MC 4357	
MC Advanced Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	7
	29
Total Hours: 120	

## Bachelor of Science (B.S.) Major in Electronic Media and Mass Communication (Digital Media Concentration)

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3311 or 4324	3
Life and Physical Sciences	6
MC 4315	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30
<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3306	3
MC 3394	3
Minor	9
Select six hours from the following:	6
MC 1100D	
MC 1100E	
MC 1100F	
MC 3390	
MC 4323	3
MC 4324	3
MC 4325	3
	36

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.



Senior	Hours
MC 3312	3
MC 4301	3
Select one of the following:	3
MC 3307	
MC 3375	
MC 4315	
MC 4357	
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
	<b>32</b>

Total Hours: 129

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Electronic Media and Mass Communication (Multimedia Production Concentration)

**Minimum required: 120 semester hours**

Freshman	Hours
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	<b>31</b>

Sophomore	Hours
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3

MC 3311 or 4324	3
Life and Physical Sciences	6
MC 3319	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	<b>30</b>

Junior	Hours
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3306	3
MC 3394	3
Minor	9
Select two of the following:	6
MC 3311	
MC 3312	
MC 3390	
MC 4312	
MC 4324	3
	<b>30</b>

Senior	Hours
MC 3312	3
MC 4301	3
Select one of the following:	3
MC 3307	
MC 3375	
MC 4315	
MC 4357	
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
	<b>32</b>

Total Hours: 123

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Journalism and Mass Communication

**Minimum required: 120 semester hours**

Freshman	Hours
COMM 1310	3
ENG 1310	3

ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3383	3
Life and Physical Sciences	6
MC Elective	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30
<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3390 or 4315	3
Minor	9
MC 3321	3
MC 4321	3
MC Advanced Elective	3
Free Electives	3
	30
<b>Senior</b>	<b>Hours</b>
MC 4386	3
MC 4301	3
MC Advanced Elective	6
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	7
	29
Total Hours: 120	

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

## Bachelor of Science (B.S.) Major in Journalism and Mass Communication (Digital Media Concentration)

Minimum required: 120 semester hours

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
	31
<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3383	3
Life and Physical Sciences	6
MC 4315	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3
	30
<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3390 or 4315	3
Minor	9
MC 3321	3
MC 4321	3
Select six hours from the following:	6
MC 1100D	
MC 1100E	
MC 1100F	
MC 3390	
MC 4323	3
MC 4324	3

MC 4325	3
39	
<b>Senior</b>	<b>Hours</b>
MC 4386	3
MC 4301	3
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
29	

Total Hours: 129

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

## Bachelor of Science (B.S.) Major in Journalism and Mass Communication (Multimedia Production Concentration)

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
31	

<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3383	3
Life and Physical Sciences	6
MC 3319	3

HIST 1310	3
HIST 1320	3
SOCI 3307	3
30	
<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3390 or 4315	3
Minor	9
MC 3321	3
MC 4321	3
Select two of the following:	6
MC 3311	
MC 3312	
MC 3390	
MC 4312	
MC 4324	3
33	

<b>Senior</b>	<b>Hours</b>
MC 4386	3
MC 4301	3
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
29	

Total Hours: 123

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Public Relations and Mass Communication

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3

MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3

31

<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3343	3
Life and Physical Sciences	6
MC Elective	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3

30

<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3360	3
Select one from the following:	3
MC 3390	
MC 4315	
MC 4313	3
Minor	9
MC Elective	3
Free Electives	3

30

<b>Senior</b>	<b>Hours</b>
MC 4320	3
MC 4301	3
MC Advanced Elective	6
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	7

29

Total Hours: 120

## Bachelor of Science (B.S.) Major in Public Relations and Mass Communication (Multimedia Production Concentration)

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3

31

<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3343	3
Life and Physical Sciences	6
MC 3319	3
HIST 1310	3
HIST 1320	3
SOCI 3307	3

30

<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3360	3
Select one of the following:	3
MC 3390	
MC 4315	
MC 4313	3
Minor	9
Select two of the following:	6
MC 3311	
MC 3312	
MC 3390	
MC 4312	

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316.

MC 4323	3
33	
<b>Senior</b>	<b>Hours</b>
MC 4320	3
MC 4301	3
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
29	

Total Hours: 123

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Bachelor of Science (B.S.) Major in Public Relations and Mass Communication (Digital Media Concentration)

**Minimum required: 120 semester hours**

<b>Freshman</b>	<b>Hours</b>
COMM 1310	3
ENG 1310	3
ENG 1320	3
Mathematics <sup>1</sup>	3
US 1100	1
POSI 2310	3
POSI 2320	3
MC 1301	3
MC 4381	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Social and Behavioral Sciences	3
31	

<b>Sophomore</b>	<b>Hours</b>
English Literature	3
PHIL 1305 or 1320	3
MC 1313	3
MC 3343	3
Life and Physical Sciences	6
MC 4315	3

HIST 1310	3
HIST 1320	3
SOCI 3307	3
30	

<b>Junior</b>	<b>Hours</b>
English Literature	3
Computer Science, Life and Physical Sciences, or Mathematics <sup>1</sup>	3
MC 3360	3

Select one from the following:	
MC 3390	
MC 4315	

MC 4313	3
Minor	9

Select six hours from the following:	6
MC 1100D	
MC 1100E	
MC 1100F	
MC 3390	

MC 4323	3
MC 4324	3
MC 4325	3
36	

<b>Senior</b>	<b>Hours</b>
MC 4320	3
MC 4301	3
MC Elective	3
Select one of the following:	1
MC 1100A	
MC 1100B	
MC 1100C	
MC 2111	
MC 4130	
Minor	9
Free Electives	10
29	

Total Hours: 126

<sup>1</sup> Any mathematics course in the general education core curriculum may be chosen to complete the Mathematics Component, except MATH 1316 .

## Minor in Mass Communication

A minor in Mass Communication requires 18 hours, including:

MC 3343	Introduction to Public Relations	3
MC 3355	Mass Media and Society	3
MC 3367	Advertising	3
MC 4302	History of Mass Media	3

Select six hours from the following:	6	
MC 1301	Introduction to Mass Communication	
MC 3375	Programming in Electronic Media	
MC 4303	International Advertising	



MC 4308	Women and Minorities in the Media	
MC 4309	Visual Literacy: Film	
MC 4310	International Communication	
MC 4318	Media Ethics	
MC 4319	Latinas/Latinos and the Media	
MC 4322	Health Communication Campaigns	
MC 4381	Fundamentals of Digital and Online Media	
MC 4382L	Feature Writing and Freelancing	
MC 4382N	Seminar in American Journalism: National Writers Workshop	
MC 4382O	Travel Journalism	
MC 4382Q	Media in Asia and Southeast Asia	
MC 4382R	Media Violence	
Total Hours		18

## Minor in Journalism

A minor in Journalism requires 18 hours, including:

MC 1301	Introduction to Mass Communication <sup>1</sup>	3
MC 1313	Media Writing	3
MC 3383	Editing for Clear Communication	3
MC 3390	Media Design	3
MC 4301	Media Law and Ethics	3
Select one of the following:		3
MC 3321	News Writing and Reporting I	
MC 4312	Photojournalism	
MC 4356A	Science Writing and Reporting	
MC 4356B	Editorials, Columns, and Reviews	
MC 4356C	Community Affairs	
MC 4356F	Feature Writing	
MC 4356G	Magazine Writing	
MC 4323	Multimedia Journalism	3
MC 4324	Visual Storytelling	3
Passing score on the PUG test or a letter grade of "C" or higher in MC 1100B <sup>1</sup>		
Total Hours		24

<sup>1</sup> A letter grade of C or higher in MC 1100B or a passing score on the PUG test must be earned to enroll in any course beyond MC 1301.

## Second Teaching Field in Journalism (Grades 8-12)

For students who are seeking teacher certification in their major and would like a second teaching field in Journalism, the requirements are:

MC 1301	Introduction to Mass Communication	3
MC 1313	Media Writing	3
MC 3383	Editing for Clear Communication	3
MC 3390	Media Design	3
MC 4301	Media Law and Ethics	3
Select one of the following:		3
MC 3321	News Writing and Reporting I	
MC 4312	Photojournalism	

MC 4356A	Science Writing and Reporting	
MC 4356B	Editorials, Columns, and Reviews	
MC 4356C	Community Affairs	
MC 4356F	Feature Writing	
MC 4356G	Magazine Writing	
MC 4323	Multimedia Journalism	3
MC 4324	Visual Storytelling	3
Total Hours		24

A letter grade of C or higher in MC 1100B or a passing score on the PUG test must be earned to enroll in any course beyond MC 1301.

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## School of Music

Music Building Room 101  
T: 512.245.2651 F: 512.245.8181  
Email: [music@txstate.edu](mailto:music@txstate.edu)  
[www.music.txstate.edu](http://www.music.txstate.edu) (<http://www.music.txstate.edu>)

## Mission Statement

The School of Music is committed to excellence in music teaching and learning for all students at Texas State. As a unit within Texas State, we provide a liberal education with emphasis on cultural values by offering special course work in the arts and humanities.

The School of Music offers thorough preparation for careers in music, music education, music performance and sound recording technology. In addition, it provides opportunities for all university students to develop musical skills and cultural understanding. The School also serves as an outstanding cultural resource for the university and San Marcos communities.

Music graduates with teacher certification work as band directors, choir directors, orchestra directors, or general music teachers. Music Performance graduates perform, establish their own teaching studios, attend graduate school, or use their music degree as a foundation for their careers. Sound Recording Technology graduates work as sound recording engineers, producers, and technicians in the recording and entertainment industries. Bachelor of Arts graduates work in arts administration, musicology, librarianship, and other music-related fields such as law, management, and sales. The choices of profession for a student completing a Bachelor of Arts or a Bachelor of Music are numerous.

## Courses Offered

Courses are offered in individual and ensemble performance, music education, history, literature, theory, composition, jazz, Latin, and sound recording. All university students, both music majors and non-music majors, are encouraged to participate in performing ensembles. However, due to the limited availability of private applied music instruction, as well as certain other music classes, the School may use the following criteria for determining students' access to these courses:

1. student's overall musical talent, musical achievement, and performance/teaching potential as determined by audition; and/or
2. studio/class space availability,
3. academic standing as represented by GPA, and

4. other appropriate indicators.

## Admission Requirements

Students wanting to enter the music program as a music major must submit an online application and audition on their principal instrument or voice the semester before their desired entrance. Students interested in Sound Recording Technology must complete an additional application, submit materials for pre-screening (see [www.txstate.edu/music/srt](http://www.txstate.edu/music/srt) (<http://www.txstate.edu/music/srt>) for details), and interview.

Admission to the School of Music is contingent upon admission to Texas State, successful completion of the audition process, and available space in each studio. Moreover, a successful audition does not automatically ensure acceptance to the School of Music at Texas State. Prospective music majors will not be permitted to enroll in applied music and other music major classes until they have been accepted based on their audition and met with an academic advisor.

Auditions are held periodically throughout the year for enrollment the following academic year. Those prospective music students unable to audition in person due to geographic distance from campus may submit an audio or video recording representative of their performing abilities. The deadline to submit a recorded audition is March 1 (Fall admission) or November 1 (Spring admission). Audition requirements are available on the School of Music website.

## School Policies

Those planning careers in music must have a high level of musical skill, music reading ability, and understanding. To help evaluate musical skills for counseling and placement purposes, the School of Music requires all music majors to pass several evaluations and academic requirements. Credit by examination is available for Music Theory I - IV and Piano Techniques I - IV only before entering the course sequence at Texas State. Students testing out of one or more of the courses above or the entire proficiency exam(s) must remit \$10 to the University's Testing Center (set fee whether receiving credit for one or more courses) before a CR grade will be processed by the Registrar's Office for the course(s). See an academic advisor and the School of Music's website for details.

A student who leaves Music major status in good standing can be readmitted as a Music major without re-auditioning if returning within twelve (12) months. A Music student who fails to complete or pass (note: failing grades are F, N, and U) applied lessons or has not been a Music major at Texas State for more than twelve (12) months (i.e. not enrolling or two W grades in a row) will automatically be moved to a pre-music status by their academic advisor and must re-apply and/or re-audition to be accepted back as a Music major.

## Music Theory Proficiency

Students seeking teacher certification must pass the theory proficiency examination no later than the semester before student teaching. All other music majors must pass the theory proficiency examination before applying for graduation. Theory proficiency requirements are available on the School of Music's website. Note: No Music Theory Proficiency exam is required for BS students.

## Upper Level Competency Review

The upper level competency review (ULCR) helps music majors determine if they are pursuing the most suitable career. On completion of four long semesters as a music major, the student's total record is reviewed by the music faculty. This review is completed before the student enrolls for

3000-level courses in the degree area. The ULCR is offered at the end of each long semester. Specific information and requirements are available in the School of Music Student Handbook and the School of Music's website.

Transfer students with four or more semesters of music study should complete the exam at the end of the first long semester of study at Texas State.

## Piano Proficiency

All BA, BM – Music Studies, instrumental concentration students seeking teacher certification, and BM – Performance, jazz concentration students must pass the level II piano proficiency exam by the end of their fourth (4<sup>th</sup>) long semester. BM – Performance, keyboard concentration students must pass the piano majors piano proficiency exam by the end of their fourth (4<sup>th</sup>) long semester. BM – Music Studies, choral concentration and all other BM – Performance majors must complete the level IV piano proficiency exam before applying for graduation. Piano proficiency requirements are available on the School of Music's website. Note: No Piano Proficiency exam is required for BS students.

## Senior Recital

A senior recital is required for all students enrolled in a Bachelor of Music degree program. Students seeking teacher certification must present the recital no later than the semester before student teaching. Specific requirements for the senior recital are described in the School of Music Student Handbook and the School of Music's website.

## Recital Attendance Requirements

Each semester, various recitals and concerts are presented by students, faculty, and visiting artists. All undergraduate music majors, with the exception of Bachelor of Science students, are required to attend a significant number of these events each semester, through enrollment in Departmental Recital. In addition, applied music instructors may require attendance at all recitals in the students individual performance area.

## Grade Requirements

Students majoring in the School of Music must achieve a grade of "C" or higher (including a CR in Departmental Recital) on all required music (MU, MUSE and MUSP) courses.

## Student Teaching Requirements

Before being allowed to enroll for student teaching, music students must have:

1. completed all major coursework for the degree with a "C" or higher;
2. presented a senior recital achieving a grade of "C" or higher;
3. passed the Upper Level Competency Review;
4. passed the piano and theory proficiency examinations; and
5. fulfilled the requirements for teacher certification as determined by the College of Education.

## Ensemble Requirements

All music majors (except Sound Recording Technology) must participate in the appropriate major ensemble each semester until all major ensemble requirements for the degree have been completed. Only one major and one secondary ensemble will be counted toward the student's

degree plan per semester. Continued participation in major ensembles after degree requirements are completed is strongly encouraged.

## Music Fees/Costs

This is a partial listing. Please consult the schedule of classes for other registration fees.

- Instrument rental fee – \$30 per semester (Includes all percussionists and students participating in percussion ensembles.)
- Marching Band Accessories - approximately \$50-\$100 per semester depending on the required number of accessories and cleanings (including shoes, gloves, shirt, shorts, Colorguard uniforms, cleanings, etc.). All participants must have the required accessories based on the information outlined in the Marching Band Handbook and syllabus.
- Choir dresses - \$63 one-time charge (All women participating in a choral ensemble, with the exception of Vocalibre must purchase a choir dress through the School of Music)
- Tuxedos - up to \$100 one-time charge (All men participating in a choral ensemble, with the exception of Vocalibre or a concert instrumental ensemble must rent/purchase a tuxedo; locations provided by ensemble directors)

NOTE: Due to copyright laws, students enrolled in private lessons are responsible for purchasing individual solos/etudes required for performance. In addition, students enrolled in voice lessons or instrumentalists preparing for juries/recital performances are responsible for the cost of providing their own accompanist for lessons, rehearsals, and recitals. See your applied lesson instructor for accompanist names and rates.

## Bachelor of Arts (B.A.)

- Major in Music (p. 279)

## Bachelor of Music (B.M.)

- Major in Music Studies (Instrumental Concentration with Teacher Certification in Music, Grades EC-12) (p. 280)
- Major in Music Studies (Choral Concentration with Teacher Certification in Music, Grades EC-12) (p. 281)
- Major in Performance (Guitar Concentration) (p. 282)
- Major in Performance (Instrumental Concentration) (p. 283)
- Major in Performance (Keyboard Concentration) (p. 283)
- Major in Performance (Jazz Concentration) (p. 284)
- Major in Performance (Vocal Concentration) (p. 285)

## Bachelor of Science (B.S.)

- Major in Sound Recording Technology (p. 286)

## Minors

- Jazz (p. 286)
- Mariachi (p. 286)
- Music
- Opera

**Subjects in this school include: MU (p. 261), MUSE (p. 269), MUSP (p. 271)**

## Courses in Music (MU)

### MU 1000. Departmental Recital.

Performance, attendance, and weekly observation of recitals. Concurrent enrollment with applied lessons required for all music majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Prerequisites or Corequisites: MUSP 1120 or MUSP 1130 or MUSP 1140 or MUSP 1150 or MUSP 1160 or MUSP 1170 or MUSP 1220 or MUSP 1230 or MUSP 1240 or MUSP 1250 or MUSP 1260 or MUSP 1270 or MUSP 1280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

### MU 1112. Basic Musicianship.

A study of music fundamentals: reading rhythms, pitches in bass and treble clefs, spelling, and identifying key signatures, intervals and chords. Prerequisite: Music major status

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MU 1150. Introduction to Music Technology.

Introduction to current computer applications in music. Including MIDI and sequencing, notation, internet communication, and digital audio. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MU 1180. Recording Practicum.

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisite: Full major status in SRT

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### MU 1182. Recording Practicum II.

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 1180 Recording Practicum. Prerequisite: MU 1180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### MU 1210. Aural Learning I.

The course materials from Music Theory I as applied through lessons in singing, playing, and music dictation. Co-requisite: MU 1211

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1216

**MU 1211. Music Theory I.**

Review of music fundamentals including, key signatures, intervals and scales. Spelling and identification of the 4 triad chord-types and the common 5 seventh-chord types. First species counterpoint in 2 voices. Assignments include part-writing and composing with triads in root position and inversion, and analysis of diatonic music. Co-requisite: MU 1210

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1211

**MU 1212. Aural Learning II.**

The course materials from Music Theory II as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 1210, MU 1211 with a grade of "C" or higher. Corequisite: MU 1213

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1217

**MU 1213. Music Theory II.**

Review of diatonic part-writing using triads. Part-writing and analysis of cadences, non-chord tones, 7th chords and secondary-function chords. Composition and analysis of period and sentence phrases. Prerequisites: MU 1210, MU 1211 with a grade of "C" or higher. Corequisite: MU 1212

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1212

**MU 1312. Essential Musicianship.**

Detailed instruction in fundamentals of music theory, including but not limited to notation, meters, scales, key signatures, intervals and chords. This course is designed primarily for non-Music majors and Music minors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1301

**MU 1314. Essential Musicianship II.**

Continued practice of the essential elements of musicianship. Emphasis on analysis and application of song forms, transposition, popular chord symbols, ear training and sight-singing. Prerequisite: MU 1312 with a C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 2000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals. Concurrent enrollment with applied lessons required for all music majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Pre-requisite or Corequisite: MUSP 2120 or MUSP 2130 or MUSP 2140 or MUSP 2150 or MUSP 2160 or MUSP 2170 or MUSP 2220 or MUSP 2230 or MUSP 2240 or MUSP 2250 or MUSP 2260 or MUSP 2270 or MUSP 2280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 2104. Writing About Music.**

Focusing on basic writing skills, research, and the use and documentation of sources. This course centers on the process of writing about music. Besides written exercises, the assignments include the study of such professional writing samples as concert reviews, program abstracts, and research essays. Prerequisite: Full major status in Performance. Pre-requisite or Corequisite: MU 3315 or MU 3316 or MU 3317, with a grade of "C" or higher. (WI)

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 2123. Foundations of Music.**

Designed to introduce the student to principles of aesthetics and philosophy, and their practical application as related to music.

Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1104

**MU 2141. Fundamentals of Diction in Singing.**

A basic course in the pronunciation of singing in English, French, Italian, Spanish, and German. Prerequisites: Full major in Vocal Performance and Music Studies in Voice. (MULT)

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2160

**MU 2142. Fundamentals of Diction in Singing II.**

A basic course in the pronunciation of singing in Italian and French combining lecture and laboratory sessions for practical application. Prerequisite: MU 2141. (MULT)

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MU 2153. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 2180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisites: Full major status in SRT, MU 1182 with a grade of "C" or higher

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 2182. Recording Practicum IV.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 2180 Recording Practicum. Prerequisites: Full major status in SRT, MU 2180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MU 2253. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 2260. Aural Learning III.**

The course material from Music Theory III as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 1212, MU 1213 with a grade of "C" or higher. Corequisite: MU 2261

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2216

**MU 2261. Music Theory III.**

Review of secondary function chords. Part-writing and analysis of modulations, chromatic chords, and mode mixture. Composition and analysis of binary and ternary forms. Prerequisites: MU 1212, MU 1213 with a grade of "C" or higher. Corequisite: MU 2260

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2211

**MU 2262. Aural Learning IV.**

The course materials from Music Theory IV as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 2260, MU 2261 with a grade of "C" or higher. Corequisite: MU 2263

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2217

**MU 2263. Music Theory IV.**

Review of functional tonality. Analysis of sonata and rondo forms. Part-writing and analysis of enharmonic modulations and ultra-chromaticism. Introduction to set theory, serialism and techniques of 20th and 21st century composition. Composition and analysis of contemporary compositional techniques. Prerequisites: MU 2260, MU 2261 with a grade of "C" or higher or pass by exam. Corequisite: MU 2262

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2212

**MU 2303. Survey of Music Literature.**

A study through listening to recordings of the characteristic examples of music literature. The aim of this course is to provide a rich background of experience with music in order that theoretical and applied study may be more meaningful. Prerequisites: Full major status or Music minor, sophomore level or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1307

**MU 2310. Guitar Class I.**

An introductory course primarily for the non-music major. This course offers the opportunity to study tuning, hand positions, chords, accompaniment patterns, strumming and introductory music reading

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1303

**MU 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, DAN 2313, or TH 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**MU 2353. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Pre-requisite or Corequisite: MUSP 3170 or 3220 or MUSP 3230 or MUSP 3240 or MUSP 3250 or MUSP 3260 or MUSP 3270 or MUSP 3280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 3050. Junior Recital.**

Preparation and performance of the junior recital for music performance majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all Music Performance majors. Pre-requisite or Corequisite: MUSP 3170 or MUSP 3220 or MUSP 3230 or MUSP 3250 or MUSP 3260 or MUSP 3270 or MUSP 3280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisites: Full major status in SRT; MU 2182 with a grade of "C" or higher. Corequisite: MU 3383

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3182. Recording Practicum VI.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 3180 Recording Practicum. Prerequisites: Full major status in SRT, MU 3180. Corequisite: MU 3384

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3207. Fundamentals of Conducting.**

Requires successful completion of the Upper Level Competency Review in Music Studies

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter



**MU 3208. Choral Conducting I.**

This course covers conducting fundamentals such as beat pattern, baton technique, score reading, cuing, subdivisions, fermatas, and releases.

The class will function as an ensemble and each student will conduct assignments approximately once each week. Requires successful completion of the Upper Level Competency Review to enroll

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3217. Instrumental Conducting.**

An application of the principles of conducting to instrumental music, including score reading and problems of interpretation. Some choral conducting experience will be included. Prerequisite: MU 3207

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MU 3227. Choral Conducting.**

An application of the principles of conducting choral music, including score reading and problems in interpretation. Some instrumental conducting experience will be included. Prerequisite: MU 3208

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3233. Jazz Theory and Improvisation I.**

This course is a study of the musical theory basics used in jazz improvisation and composition, focusing on best practices in its practical application and pedagogy. In addition to a theoretical and applied approach, students will also examine historical and cultural considerations, as they relate to performance. Prerequisites: Bachelor of Music with Jazz concentration or minor, MU 1213 or permission of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3234. Jazz Theory and Improvisation II.**

This course is a continuation of MU 3233 and pays particular attention to developing skills in the use of scales and modes (including major and minor pentatonic scales), modal playing, and jazz nomenclature.

Prerequisites: Bachelor of Music with Jazz concentration or minor, MU 3233 or permission of instructor, MUSE 3127

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3241. A Survey of Instrumental Performance Literature.**

This course is an overview of repertoire for wind bands/orchestras from all musical periods/styles, including music for beginning bands/orchestras to works for collegiate/professional ensembles. There are listening components, score study, review of instrument transpositions, programming, contest preparation and student led wind band/orchestra reading sessions. Prerequisite: MU 2313 with a grade of "C" or higher

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3242. Survey of Choral Performance Literature.**

The course covers detailed consideration of literature of all periods appropriate for choral ensembles and includes discussions on repertoire selection/performance problems peculiar to all ensemble sizes.

Assignments give students opportunity to develop their own approach to vocal challenges that face high school and junior high singers, including arranging choral music. Prerequisites: MU 2313, MU 3208, MU 3254. Co-requisite: MU 3227

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3253. Instrumental Performance Ensemble Techniques.**

This course is designed to introduce fundamental principles of effective instrumental music instruction, rehearsal techniques, and administration of secondary school music programs. This course will provide opportunities for students to conduct and rehearse instrumental ensembles, present teaching demonstrations, and conduct independent scholarship projects related to teaching. Prerequisites: Music Studies major, MU 3207, MU 2263, MUSP 3145 or MUSP 3147, MUSP 3155 or MUSP 3157

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3254. Choral Ensemble Techniques.**

This course provides practical experience in developing, teaching and maintaining a successful choral program at the secondary level.

Assignments are designed to give students the opportunity to develop approaches to the basic challenges that face high school/middle school choral directors. Students will share ideas and evaluate each other's work. Prerequisites: Music Studies with choral concentration, MU 2263.

Co-Requisite: MU 3208

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3263. Marching Band Techniques.**

An examination of the techniques required to program, design, and instruct a successful marching band show. The class will discuss different types of design concepts currently being employed throughout the country, but also to construct and chart those designs. Prerequisite: Full major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3269. Current Trends in Music II.**

A study of melodic and harmonic techniques for keyboard percussion instruments. Sight-reading techniques using Sol-Fa. Survey of the folk music of Europe and America. Prerequisite: MU 3340

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3308. History of Rock.**

A survey of the evolution of rock styles, contributions of important performers, and musical techniques involved in the creation and performance of rock music. The course focuses on the first three decades of rock history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3310. Guitar Class II.**

Primarily for the non-music major, the course includes the opportunity for development of more advanced techniques in accompaniment, music reading and solo guitar techniques. Prerequisite: MU 2310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3313. Introduction to Fine Arts.**

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3315. History and Analysis of Music I.**

This course is an intensive chronological study of music from the Medieval through Baroque periods. Students will learn what ideas, forces, and innovations shaped the composers during each period. Students are required to identify/analyze and write about the different styles, genres, and music works of each period. Prerequisites: MU 1212 and MU 2303 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 3316. History and Analysis of Music.**

A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. Prerequisites: MU 2303 and MU 3315 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 3318. World Musics.**

This course equips students with practical and intellectual tools to enhance their enjoyment and understanding of popular, folk and classical music traditions around the globe, (with the exclusion of what is commonly referred to as Western Art Music) and explores how these traditions relate to history, social issues, politics and identity. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**MU 3340. Current Trends in Music I.**

A study of the components of music and their concepts. An emphasis on singing and rhythmic performance skills, and esthetic awareness through listening. Prerequisite: MU 2123

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3370. Music for the Elementary Classroom.**

Introduction to basic music skills for the elementary classroom teacher.

Include practical application and development of strategies and instructional techniques necessary for effective integration of music experiences in the elementary classroom curriculum. Intended for interdisciplinary studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3375. History of Jazz.**

Jazz originated in America and has been of great importance in the development of the 20th Century music. Topics will include the structure and history of jazz, the contributions of jazz to contemporary music, and the chronological development of jazz experienced through recordings and live performances. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MU 3380A. Women in Jazz.**

Overview of jazz history from its New Orleans origins to the present focusing on the contributions of women. Major style periods researched include early jazz/swing, bebop, cool, hard bop, free jazz, jazz fusion, and contemporary trends. Emphasis will be placed on the development of critical listening skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380B. Music and Film.**

This course is an exploration of historical traditions and functions of Hollywood film music. Students will apply music theory and dictation skills to analyze scores and explain how film music's characteristics and associated cultural connotations combine with image to create new meaning. Prerequisites: MU 2262 and MU 2263, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380C. Rock Harmony.**

Theoretical analysis of popular and rock music incorporating extensive ear training components such as recognition of chords and progressions. Further analysis of the individual stylistic details in rock songs as well as comparison to traditional tonal harmony and form. Pre-requisite: MU 1312 with a C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380D. History of Blues.**

This course explores the role of the blues in American popular music, tracing the history of the genre from its origins to its influence on rock and other related styles, surveying important recording labels and related figures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3381. Recording I.**

Introduction to audio recording techniques. Topics include acoustics, electronics, microphones, microphone techniques, loudspeakers, and operating principles of common recording equipment. Prerequisite: MU 1182. Restricted to Sound Recording Technology majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3382. Recording II.**

A continuation of MU 3381. Topics include: operating principles of common recording equipment, fundamentals of analog and digital recording, signal flow, equalization, and sound effects processors.

Prerequisite: MU 3381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3383. Audio Technology: Microphones and Mixing Techniques.**

Principles and practices of microphone and mixing techniques.

Prerequisite: MU 3382 with a grade of "C" or higher. Corequisite: MU 3180

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MU 3384. Audio Recording Techniques.**

Audio tape and disc recording and their applications in a variety of settings and genres. Prerequisite: MU 3383 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MU 4000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals. Concurrent enrollment with applied lessons required for all music majors.

Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all Music majors

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 4050. Senior Recital.**

Preparation and performance of the senior recital. Prerequisite or

Corequisites: MUSP 4170, MUSP 4220, MUSP 4230, MUSP 4240, MUSP 4250, MUSP 4260, MUSP 4270, or MUSP 4280, with a grade of "C" or higher

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4151. Band Instrument Repair.**

A one-semester course designed to equip the prospective band director with the skills to make basic repairs on the various musical instruments

**1 Credit Hour. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4152. Problems in Music.**

A study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated for credit twice with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4156. Mariachi Arranging.**

This course is a study of Mariachi repertoire and arranging techniques for a Mariachi ensemble. Topics will cover instrument ranges, orchestration techniques, and styles. This course is repeatable for credit three times.

Prerequisites: MU 1210 and MU 1211

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4157. Mariachi Ensemble Teaching Lab.**

This course provides students with the knowledge to become effective directors of Mariachi ensembles within the public school/university systems. Mariachi curriculum/repertoire/rehearsal techniques

appropriate to middle school/high school/post-high school ensembles are discussed and applied within the setting of a performing ensemble. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisite: MU 3182

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4182. Recording Practicum VIII.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 4180 Recording Practicum. Prerequisite: MU 4180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4185. Senior Research Project.**

A study of the student's senior recital literature resulting in a thorough research paper on the theoretical, historical, technical and stylistic aspects of the compositions. Prerequisite or Corequisite: MU 4050, MUSP 4170, MUSP 4220, MUSP 4230, MUSP 4240, MUSP 4250, MUSP 4260, MUSP 4270, or MUSP 4280

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4234. Arranging Techniques for School Music Ensembles.**

This class will introduce the many techniques involved in arranging for a wide variety of school music ensembles. Content will include an examination of the various instrument families, basic manuscript techniques (both manual and computer aided) and various orchestration techniques for voicing and scoring. Prerequisites: Music Studies majors, MU 2263, MU 3207, MUSP 3145 or MUSP 3147, MUSP 3155 or MUSP 3157

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4244. Jazz Theory and Improvisation III.**

This course is a continuation of MU 3234 and explores advanced concepts in jazz theory including symmetrical scales, chord substitutions, re-harmonization, pentatonic and exotic scale forms. Classes will focus on best practices in practical application and pedagogy and also examine historical and cultural considerations related to performance. Prerequisites: Bachelor of Music, MU 3234 or permission of instructor, MUSE 3127

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4245. Jazz Composition and Arranging.**

This course is an in-depth exploration of various commercial writing styles and instrumentations, focusing on Pop, Latin, and Jazz. Students will analyze the writing styles of prolific 20th century Big Band Arrangers, and learn to write music for all types of commercial applications, and styles, for all levels of musicians. Prerequisite: Bachelor of Music, MU 4244 or permission of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4253. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4255A. Vocal Pedagogy.**

Developing teaching methods and broader understanding through critical study of vocal techniques. Prerequisite: Performance major with Vocal Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255B. Guitar Pedagogy.**

Developing teaching methods and broader understanding through critical study of guitar techniques. Prerequisite: Performance with Guitar Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MU 4255C. Piano Pedagogy.**

This course will help guide students to become more competent and efficient piano teachers through the study of various teaching methods and broaden their understanding of teaching techniques through critical study of various piano technique resources. Prerequisite: Bachelor of Music with keyboard concentration and MUSP 3230 or MUSP 4230

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255D. Woodwind Pedagogy.**

This course provides students the opportunity to explore the methodology involved in pedagogy of specific woodwind instruments from beginning through advanced levels to prepare them to become more competent and efficient instructors. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3240 or MUSP 4240

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255E. Brass Pedagogy.**

Brass Pedagogy is an intensive study of various instruction styles, skills, and techniques applicable on brass wind instruments. The student will develop instructional methods and a broader knowledge through critical study of instructional and performance techniques. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3250, MUSP 3350, MUSP 4250, or MUSP 4350

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255F. Percussion Pedagogy.**

Percussion pedagogy will familiarize the percussion students with various percussion pedagogical studies on a variety of percussion instruments through research, examination, and a compilation of written reviews of current percussion methods and educational publications.

Prerequisites: Bachelor of Music with instrumental concentration and

MUSP 3170, MUSP 3270, MUSP 4170, or MUSP 4270

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255G. String Pedagogy.**

This course represents an intensive study of publications concerned with the instructional methodology of bowed stringed instruments and will include practical instructional experience in a private studio setting, as well as in a group setting. Prerequisites: Bachelor of Music with string or instrumental concentration and MUSP 3260 or MUSP 4260

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256A. Vocal Literature.**

Detailed consideration of vocal literature of all periods and voice classifications. Repertoire selection and performance problems peculiar to vocalists are discussed. Prerequisite: Performance with Vocal Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256B. Guitar Literature.**

Detailed consideration of guitar literature from all musical periods. Repertoire selection and performance problems peculiar to guitar performers are discussed. Prerequisite: Performance with Guitar Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MU 4256C. Piano Literature.**

A study of piano performance literature focusing on various styles, genres, composers and eras. This course may be repeated for credit with a different emphasis. Prerequisite: Performance Major status  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MU 4256D. Woodwind Literature.**

Woodwind Literature is a survey of the development of the student's instrument and its literature through a historical perspective stressing a broad knowledge of standard repertoire and styles. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3240 or MUSP 4240  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MU 4256E. Brass Literature.**

This survey course covers major aspects of selected solo, chamber, and orchestral music repertoire for brass wind instruments including methods and texts. It will also include directed study on the literature of the student's instrument. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3250 or MUSP 4250  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MU 4256F. Percussion Literature.**

Percussion literature will familiarize the percussion student with solo and ensemble literature on a variety of percussion instruments through research, examination, and a compilation of written reviews of published percussion literature. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3170, MUSP 3270, MUSP 4170, or MUSP 4270  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MU 4256G. String Literature.**

This course encompasses an intensive study of solo and chamber music repertoire from the vantage point of performance practice and rehearsal technique. Specific emphasis will be given to comparisons of stylistic characteristics within the genres. Prerequisites: Bachelor of Music with string or instrumental concentration and MUSP 3260 or MUSP 4260  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MU 4257. Vocal Pedagogy I: Voice Science.**

This course explores the anatomy/physiology of the human voice, the acoustic properties that govern resonance, vocal health, and the philosophy of singing and teaching. It is designed for Bachelor of Music majors with a concentration in voice. Restricted to Music Studies or Music Performance majors, with a vocal concentration. Co-requisites: MUSP 3220 or MUSP 4220, or by Instructor Permission  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MU 4258. History of Music in Mexico.**

This course is a study of the musical panorama of Mexico; pre-colonial, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context. It includes research methodology and musicology related to Mexican music  
**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MU 4259. Vocal Literature.**

This course is a detailed consideration of vocal literature from approximately 1600 through the 20th century, focusing on different cultures of the world. It covers major composers and developments in the genre. Repertoire selection and performance problems peculiar to the various styles will be discussed. Prerequisites: Bachelor of Music with vocal concentration and MU 2142. Corequisite: MUSP 3220 or MUSP 4220  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MU 4260. Vocal Pedagogy II: Methods.**

This is a comparative study of various pedagogical methods and ideas that covers a wide range of historical and contemporary pedagogy treatises. Students will explore exercises and vocalises for general voice development, peer teaching, and techniques to address/correct specific vocal problems. Prerequisite: MU 4257 with a grade of "B" or better. Co-requisites: MUSP 3220 or MUSP 4220, or by Instructor Permission  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 4280. Senior Research Project.**

A study of the student's senior recital literature resulting in a thorough research paper on the theoretical, historical, technical and stylistic aspects of the compositions. Corequisites: Concurrent enrollment in Senior Recital, applied lessons, and major ensemble. (WI)  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**MU 4310. Guitar Class III: Rock, Country, Blues.**

Designed primarily for the non-music major. Continued study of advanced techniques including scales, arpeggios, strumming patterns and advanced accompanying styles. Analysis and performance of musical styles including rock, country and blues. Prerequisite: MU 3310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 4312. Guitar Class IV: Rock, Country, Blues.**

Designed primarily for the non-music major. Continued study of advanced techniques including soloing techniques, accompaniment techniques. Detailed analysis of performance styles emphasizing the styles of contemporary performers. Prerequisite: MU 4310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 4330. Form and Analysis.**

Principles of form and analysis developed through the in-depth application of analytical systems to the musical repertoire through the nineteenth century. Prerequisites: MU 2263 or consent of the instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**MU 4332. Contemporary Analytic Techniques.**

Detailed study and analysis of selected compositions from the early twentieth century to the present; analytical projects. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4334. Orchestration.**

Study of the characteristics of individual instruments; writing for various combinations; study of scores of different periods; techniques of instrumentation, arranging, and orchestration; listening to recorded and live performances. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4336. Eighteenth Century Counterpoint.**

A study of 18th century contrapuntal techniques as found in choral preludes, inventions and fugues, among other forms. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4343. Jazz Pedagogy.**

A study of repertoire selection and evaluation, phrasing and articulation, rhythm section techniques, methods of instruction, and review of current teaching styles in American jazz programs, including contest preparation and the teaching of basic improvisation. Prerequisites: MU 2262, MU 2263 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4351. Problems in Music.**

Study of one or more problems in music. Problems chosen may not duplicate the scope of another course offered for credit. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4353. Problems in Music.**

Study of one or more problems in music. Problems chosen may not duplicate the scope of another course offered for credit. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4354. Business in Music.**

A preparation of students and future musicians for a career in music. The course will discuss the various career options available to aspiring musicians and the paths to take to pursue these options

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4385. Advanced Audio Recording Techniques.**

Application of theoretical skills in recording, mixing, and editing concert music. Prerequisite: MU 3384. Corequisite: MU 4180

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4386. Internship.**

Practical experience in audio recording under professional supervision. Provides the opportunity for students to demonstrate professional competencies based on prior theoretical and laboratory experiences.

Prerequisite: SRT majors only

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4680. Internship in Sound Recording Technology.**

Practical experience in audio recording under professional supervision. Provides the opportunity for students to demonstrate professional competencies based on prior theoretical and laboratory experiences.

Prerequisite: MU 4385. Capstone course

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Music Ensembles (MUSE)

**MUSE 3026. Student Chamber Music.**

Small student organized and led performing groups coached by area faculty as necessary

**0 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3027. Jazz Seminar.**

Jazz faculty and guest artists meet with Jazz Performance majors to address topics outside the scope of the student's other daily coursework. The seminar will provide lectures and performance opportunities that focus on skills related to professional jazz performance practices

**0 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3099. Concert Ensemble.**

This is a major instrumental ensemble that provides playing experience for music majors to improve their performance skills in a mixed ensemble setting. May be repeated for credit. Co-requisite: MUSE 3120. Restricted to full majors in Music Studies, Instrumental Concentration

**0 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3101. Basketball Band.**

The Bobcat Basketball Band performs for all home men's and women's basketball games that do not fall over a university break. The group travels for all postseason tournaments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3102. Salsa Del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3103. Texas State Mariachi.**

Performing ensemble specializing in Mexican folk music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3104. Panorama Steel Drum Band.**

A performing ensemble specializing in Caribbean steel drum band music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3105. VocaLibre.**

A select vocal ensemble specializing in chamber music, including madrigal and jazz literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3106. Opera Workshop.**

Vocal performance opportunity to participate in performance of opera and to learn techniques for operatic acting and staging. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3107. Opera Theatre.**

Advanced level course designed for the mature vocal performer to analyze and strengthen individual acting and character techniques through work in full productions of operas, operettas and other musical theater literature. Prerequisite: MUSE 3106 Opera Workshop

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3108. Orquesta del Rio.**

Performing ensemble specializing in Latin and South America music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSE 3120. Bobcat Marching Band.**

This ensemble performs at all home and select away football games utilizing traditional and corps-style marching. The ensemble is focused on delivering entertaining and high-powered halftime shows while supporting Bobcat Football. The band also performs in exhibitions for high school band events. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3123. Concert Band.**

This ensemble provides playing experiences for non-music majors and music majors who want to improve their skills and serve as a lab ensemble for conducting students. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3124. Women's Choir.**

Performing ensemble specializing in choral literature for women's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3125. Men's Choir.**

Performing ensemble specializing in choral literature for men's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3126. Chamber Music.**

Small group performing ensembles focusing on chamber literature of mixed and similar instrumental music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3127. Jazz Combo.**

A small performance ensemble designed to develop improvisational skills and individual musical creativity through performance of standard jazz literature. May be repeated for credit

**1 Credit Hour. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3130. Wind Symphony.**

Major instrumental ensemble comprised of the most outstanding wind and percussion students who are selected by audition. The group is dedicated to the performance of the finest wind repertoire, whether a contemporary works for winds, or transcriptions from the orchestral repertoire. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3131. Symphonic Winds.**

Major instrumental ensemble consisting primarily of music majors and talented non-music majors. This ensemble performs a broad range of full ensemble repertoire, representative of all historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3140. Texas State Chorale.**

Auditioned major choral ensemble specializing in performances of literature from the Renaissance and 20th Century. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3141. University Singers.**

Major choral ensemble that performs a variety of literature, including masterworks, from the 17th Century to the present. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3150. Texas State Symphony Orchestra.**

A full symphony orchestra that performs standard orchestra literature, as well as oratorio, concerto, and opera accompaniments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3151. Chamber Orchestra.**

Auditioned orchestra designed to perform advanced level symphonic literature with repertoire representing several of historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3160. Jazz Ensemble.**

The jazz based ensemble performs advanced arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3161. Jazz Orchestra.**

The jazz based ensemble performs intermediate arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3162. Jazz Lab Band.**

The jazz based ensemble performs beginning arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3170. Accompanying.**

A coaching seminar for pianists to develop reading and accompanying skills. May be repeated for credit. Prerequisite: Piano major

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3180. Mysterium for Modern Music.**

A seminar-based course focusing on the performance and analysis of 20th century music in all styles and media. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3190. Guitar Ensemble.**

Chamber guitar ensemble designed to provide interaction with fellow guitarists, develop musicianship as ensemble performer, and to familiarize student with music from different periods through a variety of literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

beginning through advanced levels of instruction. Though supervised private coaching, instruction focuses on technique, musicality, literature, and performance. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

**MUSP 1120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble;

Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1121. Vocal Techniques.**

Vocal Techniques. Vocal instruction focusing on technique, musicality and performance for the beginning singer. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1135. Piano Techniques I.**

Introductory course to develop piano technique and musical style through sight-reading, scales, chords, harmonization, and improvisation. Prerequisite: Music major status

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1136. Piano Techniques II.**

Introductory course to develop piano technique and musical style through sight-reading, scales, chords, harmonization, and improvisation. Prerequisite: MUSP 1135

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1137. Piano Techniques III.**

Advanced level course to develop piano technique and musical style through sight-reading, scales, chords, harmonization and improvisation. Prerequisite: MUSP 1136

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Applied Music (MUSP)

Applied Instruction: Private study of voice, piano/organ, woodwind, brass, string, and percussion instruments is available to all music majors from

**MUSP 1138. Piano Techniques IV.**

Advanced level course to develop piano technique and musical style through sight-reading, scales, chords, harmonization and improvisation.

Prerequisite: MUSP 1137

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1180. Introduction to Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 1280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2125. Applied Voice for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual vocal development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2135. Applied Keyboard for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual keyboard development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2145. Applied Woodwind for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual woodwind development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2155. Applied Brass for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual brass development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2165. Applied String for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual string development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 2175. Applied Percussion for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual percussion development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2185. Applied Composition for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual composition development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2191. Electronic Music I.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: SRT majors

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2192. Electronic Music II.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 2191

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2225. Applied Voice for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual vocal development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2235. Applied Keyboard for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual keyboard development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2245. Applied Woodwind for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual woodwind development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2255. Applied Brass for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual brass development. May be repeated for credit. Permission from instructor required to enroll  
**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 2260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 2265. Applied String for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual string development. May be repeated for credit. Permission from instructor required to enroll  
**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 2270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 2280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 2285. Applied Composition for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual composition development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3131. Jazz Piano Techniques I.**

Beginning piano techniques class introducing scales and chords used in the jazz idiom. Prerequisite: MUSP 1136. Restricted to include students enrolled in the Bachelor of Music Concentration in Jazz or the Minor in Jazz

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3132. Jazz Piano Techniques II.**

Continuing study of piano technique in the jazz idiom and application of skills through performance and arranging. Prerequisite: Bachelor of Music with Jazz concentration or minor and MUSP 3131

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3145. Woodwind Techniques I.**

Basic teaching and performance techniques of the clarinet and saxophone. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3147. Woodwind Techniques II.**

Basic teaching and performance techniques of the flute and double reeds. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**MUSP 3155. Brass Techniques.**

Basic teaching and performance techniques of the trumpet, horn, trombone, euphonium and tuba. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3157. Brass Techniques II.**

Continuation of the basic teaching and performance techniques of the trumpet, horn, trombone, euphonium and tuba. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3165. String Techniques.**

Basic teaching and performance techniques of the violin, viola, cello and double bass. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3175. Percussion Techniques.**

Basic teaching and performance techniques of marching and concert percussion. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3191. Electronic Music III.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 2192

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3192. Electronic Music IV.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 3191

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3195. Instrumental Techniques.**

This course introduces basic teaching and performance techniques of band and orchestral instruments, instrumental ensembles and instrumental music programs for music students who consider instrumental music a secondary skill area. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3196. Jazz & Multicultural Techniques.**

This course explores the basic teaching and performance techniques of instrumentation, arranging and pedagogy in the areas of jazz and multicultural ensembles. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSP 3197. Choral/Vocal Techniques.**

This course will prepare instrumental music studies students with knowledge of and practice in basic vocal and choral techniques along with guidance in the choosing of appropriate choral literature in order that they may be successful in developing, directing, and maintaining choral programs in elementary and secondary schools. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSP 3220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3360. Applied Strings.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 3370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. Co-requisite: MUSP 4230

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. Co-requisite: MUSP 4240

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. Co-requisite: MUSP 4260

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4164. Mariachi Melodia Techniques.**

This course provides students with the fundamentals of playing and teaching the melodic instruments associated with the Mariachi ensemble, with specific emphasis on the voice, violin, and trumpet. Topics will cover history, tuning, and stylistic techniques associated with each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4165. Mariachi Armonia Techniques.**

This course provides students with the fundamentals of playing and teaching the rhythm/harmony instruments in the Mariachi ensemble, with specific emphasis in the guitarrón, vihuela/guitar, and the harp. Topics will cover history, tuning, strumming, and stylistic techniques specific to each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 4250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4360. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit.

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Music

**Minimum required: 120 semester hours**

### Additional Requirements

1. Piano Proficiency (Level II)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

Fall Semester Hours		Spring Semester Hours		Freshman
MU 1000	0	MU 1000	0	0
MU 1210	2	MU 1212	2	2
MU 1211	2	MU 1213	2	2
MUSP 11xx/MUSP 31xx	2	MUSP 11xx/MUSP 31xx	2	2
MUSE 31xx	1	MUSE 31xx	1	1
MUSP 1135	1	MUSP 1136	1	1
US 1100	1	ENG 1320	3	3
ENG 1310	3	HIST 1310	3	3
Mathematics	3			
	15		14	

Fall Semester Hours		Spring Semester Hours		Sophomore
MU 2000	0	MU 2000	0	0
MU 2260	2	MU 2262	2	2
MU 2261	2	MU 2263	2	2
MU 2303	3	MUSP 21xx/MUSP 31xx	2	2
MUSP 21xx/MUSP 31xx	2	MUSE 31xx	1	1
MUSE 31xx	1	POSI 2310	3	3
HIST 1320	3	COMM 1310	3	3
Social and Behavioral Sciences	3	Minor	3	3
	16		16	

Fall Semester Hours		Spring Semester Hours		Junior
MU 3000	0	MU 3000	0	0
MU 3315	3	Advanced Music elective	3	3
Modern Language 2310	3	Modern Language 2320	3	3
Life and Physical Sciences	3	MU 3316	3	3
POSI 2320	3	Life and Physical Sciences	3	3
Minor	3	Minor	3	3
	15		15	

Fall Semester Hours		Spring Semester Hours		Senior
Advanced Music Elective	3	Advanced Music Elective	2	2
ENG Literature	3	Select one of the following:	3	3
Math/Science/Logic	3	ART 2313		
PHIL 1305 or 1320	3	DAN 2313		
Minor	3	MU 2313		
		TH 2313		
		Minor	6	6
		English Literature	3	3
	15		14	

Total Hours: 120

# Bachelor of Music (B.M.) Major in Music Studies (Instrumental Concentration with Teacher Certification in Music, Grades EC-12)

**Minimum required: 131 semester hours**

## Additional Requirements

1. Piano Proficiency (Level II)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Fall Semester Hours		Spring Semester Hours		Freshman
MU 1000	0	MU 1000	0	0
MU 1210	2	MU 1212	2	2
MU 1211	2	MU 1213	2	2
MUSP 12xx	2	MUSP 12xx	2	2
Select one of the following:	1	Select one of the following:	1	1
MUSE 3120		MUSE 3123		
MUSE 3150 (Strings)		MUSE 3130		
MU 1150	1	MUSE 3131		
MUSP 1135	1	MUSE 3150 (Strings)		
US 1100 (music education section)	1	MUSP 1136	1	1
ENG 1310	3	MU 2123	1	1
POSI 2310	3	ENG 1320	3	3
MATH 1315	3	POSI 2320	3	3
		PHIL 1305 or 1320	3	3
	19		18	

Fall Semester Hours		Spring Semester Hours		Sophomore
MU 2000	0	MU 2000	0	0
MU 2260	2	MU 2262	2	2
MU 2261	2	MU 2263	2	2
MUSP 22xx	2	MUSP 22xx	2	2
Select one of the following:	1	Select one of the following:	1	1
MUSE 3120		MUSE 3123		
MUSE 3150 (Strings)		MUSE 3130		
MUSE 3099 (Non-String students)	0	MUSE 3131		
MU 2303	3	MUSE 3150 (Strings)		
MUSP 3197	1	MUSE 3026 (secondary ensemble)	0	0
MUSP 3165 or 3175	1	MU 3241 (Band or Orchestra)	2	2
HIST 1310	3	MUSP 3196	1	1
COMM 1310	3	MUSP 3165 or 3175	1	1
		Select one of the following:	3	3
		ART 2313		
		DAN 2313		

		MU 2313		
		TH 2313		
		HIST 1320	3	
		18	17	
		<b>Junior</b>		
Fall Semester	Hours	Spring Semester	Hours	
MU 3000	0	MU 3000	0	
MUSP 32xx	2	MUSP 32xx	2	
Select one of the following:	1	Select one of the following:	1	
MUSE 3120		MUSE 3123		
MUSE 3150 (Strings)		MUSE 3130		
MUSE 3099 (non-String students)	0	MUSE 3131		
MUSE 3026 (secondary ensemble)	0	MUSE 3150 (Strings)		
MU 3315	3	MU 3316	3	
MU 3207	2	MU 3217	2	
MU 3340	3	MU 3253	2	
MUSP 3145	1	MUSP 3147	1	
MUSP 3155	1	MUSP 3157	1	
Life and Physical Sciences	3	Select one of the following:	0-2	
		MU 3269 (Elementary Methods II)		
		MU 3263 (Fall only)		
		Social and Behavioral Sciences	3	
		Life and Physical Sciences	3	
		16	20	
		<b>Senior</b>		
Fall Semester	Hours	Spring Semester	Hours	
MUSP 42xx	2	EDST 4380	3	
MU 4050	0	EDST 4381	3	
MU 4234	2			
MU 3263 (or 3269 in previous semester)	0-2			
Select one of the following:	1			
MUSE 3123				
MUSE 3130				
MUSE 3131				
MUSE 3150 (Strings)				
CI 4343	3			
CI 4370	3			
RDG 3323	3			
English Literature	3			
		17	6	
Total Hours: 131				

## Bachelor of Music (B.M.) Major in Music Studies (Choral Concentration with Teacher Certification in Music, Grades EC-12)

**Minimum required: 129 semester hours**

### Additional Requirements

1. Piano Proficiency (Level IV)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

				<b>Freshman</b>	
Fall Semester	Hours	Spring Semester	Hours		
MU 1000	0	MU 1000	0		
MU 1210	2	MU 1212	2		
MU 1211	2	MU 1213	2		
MUSP 1220	2	MUSP 1220	2		
MUSE 3124 or 3125	1	Select one from the following:	1		
MU 1150	1	MUSE 3124			
MUSP 1135	1	MUSE 3125			
US 1100 (music education section)	1	MUSE 3140			
ENG 1310	3	MUSE 3141			
POSI 2310	3	MUSP 1136	1		
MATH 1315	3	MU 2123	1		
		ENG 1320	3		
		POSI 2320	3		
		PHIL 1305 or 1320	3		
		19	18		
		<b>Sophomore</b>			
Fall Semester	Hours	Spring Semester	Hours		
MU 2000	0	MU 2000	0		
MU 2260	2	MU 2262	2		
MU 2261	2	MU 2263	2		
MUSP 2220	2	MUSP 2220	2		
MUSE 3140 or 3141	1	MUSE 3140 or 3141	1		
MU 2303	3	MU 3318	3		
MUSP 3195	1	MUSP 1138	1		
MUSP 1137	1	MU 2142	1		
MU 2141	1	Select one of the following:	3		
HIST 1310	3	ART 2313			
COMM 1310	3	DAN 2313			
		MU 2313			
		TH 2313			
		HIST 1320	3		
		19	18		

Fall Semester Hours		Spring Semester Hours		Junior
MU 3000	0	MU 3000	0	
MUSP 3220	2	MUSP 3220	2	
MUSE 3140 or 3141	1	MUSE 3140 or 3141	1	
MU 3315	3	MU 3316	3	
MU 3208	2	MU 3227	2	
MU 3340	3	MU 3242	2	
MU 3254	2	MU 3269 or 4257 (Fall only)	0-2	
MU 4257 or 3269 (Spring only)	0-2	Life and Physical Sciences	3	
Life and Physical Sciences	3	Social and Behavioral Sciences	3	
18		16		

Fall Semester Hours		Spring Semester Hours		Senior
MUSP 4220	2	EDST 4380	3	
MUSE 3140 or 3141	1	EDST 4381	3	
MU 4050	0			
CI 4343	3			
CI 4370	3			
RDG 3323	3			
English Literature	3			
15		6		

Total Hours: 129

## Bachelor of Music (B.M.) Major in Performance (Guitar Concentration)

Minimum required: 120 semester hours

### Additional Requirements

1. Piano Proficiency (Level IV)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

Fall Semester Hours		Spring Semester Hours		Freshman
MU 1000	0	MU 1000	0	
MU 1210	2	MU 1212	2	
MU 1211	2	MU 1213	2	
MUSP 1260	2	MUSP 1260	2	
MUSE 3190	1	MUSE 3190	1	
MU 1150	1	MUSP 1136	1	
MUSP 1135	1	ENG 1320	3	
US 1100	1	COMM 1310	3	
ENG 1310	3			
Mathematics	3			
16		14		

Fall Semester Hours		Spring Semester Hours		Sophomore
MU 2000	0	MU 2000	0	
MU 2260	2	MU 2262	2	

MU 2261	2	MU 2263	2
MUSP 2260	2	MUSP 2260	2
MUSE 3190	1	MUSE 3190	1
MU 2303	3	MU 3318	3
MU 2104	1	MUSP 1138	1
MUSP 1137	1	HIST 1320	3
HIST 1310	3		
15		14	

Fall Semester Hours		Spring Semester Hours		Junior
MU 3000	0	MU 3000	0	
MU 3207 or 3208	2	MU 3050	0	
MU 3315	3	MU 3316	3	
MUSE 3190	1	Select one of the following:	3	
MUSP 3260	2	MU 4330		
MUSP 3160	1	MU 4332		
Life and Physical Sciences	3	MU 4334		
POSI 2310	3	MU 4336		
		MUSE 3190	1	
		MUSP 3260	2	
		MUSP 3160	1	
		Life and Physical Sciences	3	
		POSI 2320	3	
15		16		

Fall Semester Hours		Spring Semester Hours		Senior
MU 4256B	2	MU 4050	0	
Select one of the following:	3	MU 4185	1	
MU 4330		MU 4255B	2	
MU 4332		Select one from the following:	1	
MU 4334		MUSE 3102		
MU 4336		MUSE 3103		
2 Hours advanced MU Electives	2	MUSE 3108		
Select one from the following:	1	MUSE 3127		
MUSE 3102		MUSE 3160		
MUSE 3103		MUSE 3161		
MUSE 3108		MUSE 3162		
MUSE 3127		MUSE 3190		
MUSE 3160		MUSP 4360	3	
MUSE 3161		Select one of the following:	3	
MUSE 3162		ART 2313		
MUSE 3190		DAN 2313		
MUSP 4360	3	MU 2313		
English Literature	3	TH 2313		
Social and Behavioral Sciences	3	PHIL 1305 or 1320	3	
17		13		

Total Hours: 120

## Bachelor of Music (B.M.) Major in Performance (Instrumental Concentration)

**Minimum required: 120 semester hours**

### Additional Requirements:

1. Piano Proficiency (Level IV)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

		Freshman	
	Fall Semester Hours		Spring Semester Hours
MU 1000	0	MU 1000	0
MU 1210	2	MU 1212	2
MU 1211	2	MU 1213	2
MUSP 12xx	2	MUSP 12xx	2
Select one of the following:	1	Select one of the following:	1
MUSE 31xx (Wind Band)		MUSE 31xx (Wind Band)	
MUSE 3150		MUSE 3150	
MU 1150	1	MUSP 1136	1
MUSP 1135	1	ENG 1320	3
US 1100	1	PHIL 1305 or 1320	3
ENG 1310	3	HIST 1310	3
Mathematics	3		
	16		17

		Sophomore	
	Fall Semester Hours		Spring Semester Hours
MU 2000	0	MU 2000	0
MU 2260	2	MU 2262	2
MU 2261	2	MU 2263	2
MUSP 22xx	2	MUSP 22xx	2
Select one of the following:	1	Select one of the following:	1
MUSE 31xx (Wind Band)		MUSE 31xx (Wind Band)	
MUSE 3150		MUSE 3150	
MU 3318	3	MUSE 31xx (secondary ensemble)	1
MU 2104	1	MU 2303	3
MUSP 1137	1	MUSP 1138	1
MUSE 31xx (secondary ensemble)	1	HIST 1320	3
COMM 1310	3		
	16		15

		Junior	
	Fall Semester Hours		Spring Semester Hours
MU 3000	0	MU 3000	0
MUSP 32xx	2	MUSP 32xx	2
MUSE 31xx	1	MUSE 31xx	1
MUSE 31xx (secondary ensemble)	1	MUSE 31xx (secondary ensemble)	1
MU 3315	3	MU 3050	0
MU 3207	2	MU 3316	3
Life and Physical Sciences	3	Select one of the following:	3

POSI 2310	3	MU 4330	
		MU 4332	
		MU 4334	
		MU 4336	
		Life and Physical Sciences	3
		POSI 2320	3
	15		16

		Senior	
	Fall Semester Hours		Spring Semester Hours
MUSP 42xx	2	MUSP 42xx	2
MUSE 31xx	1	MUSE 31xx	1
Any MU 4255 course	2	MU 4050	0
Any MU 4256 course	2	MU 4185	1
Select one of the following:	3	Select one of the following:	3
MU 4330		ART 2313	
MU 4332		DAN 2313	
MU 4334		MU 2313	
MU 4336		TH 2313	
English Literature	3	2 hours ADV MU, MUSE or MUSP elective	2
		Social and Behavioral Sciences Component	3
	13		12

Total Hours: 120

## Bachelor of Music (B.M.) Major in Performance (Keyboard Concentration)

**Minimum required: 120 semester hours**

### Additional Requirements

1. Piano Proficiency
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

		Freshman	
	Fall Semester Hours		Spring Semester Hours
MU 1000	0	MU 1000	0
MU 1150	1	MU 1212	2
MU 1210	2	MU 1213	2
MU 1211	2	Select one from the following:	1
Select one from the following:	1	MUSE 3124	
MUSE 3124		MUSE 3125	
MUSE 3125		MUSE 3140	
MUSE 3140		MUSE 3141	
MUSE 3141		Select one from the following:	1
Select one from the following:	1	MUSP 1120	
MUSP 1120		MUSP 1130	



MUSP 1130	MUSP 1140	
MUSP 1140	MUSP 1150	
MUSP 1150	MUSP 1160	
MUSP 1160	MUSP 1170	
MUSP 1170	MUSP 1230	2
MUSP 1230	2 COMM 1310	3
ENG 1310	3 ENG 1320	3
Mathematics Component	3	
US 1100	1	
	16	14

**Sophomore**

Fall Semester Hours	Spring Semester Hours	
MU 2000	0 MU 2000	0
MU 2104	1 MU 2262	2
MU 2260	2 MU 2263	2
MU 2261	2 MU 2303	3
MUSE 3170	1 MUSE 3170	1
Select one from the following:	1 Select one of the following:	1
MUSP 1120	MUSP 1120	
MUSP 1130	MUSP 1130	
MUSP 1140	MUSP 1140	
MUSP 1150	MUSP 1150	
MUSP 1160	MUSP 1160	
MUSP 1170	MUSP 1170	
MUSP 2230	2 MUSP 2230	2
HIST 1310	3 HIST 1320	3
Select one of the following:	3	
ART 2313		
DAN 2313		
MU 2313		
TH 2313		
	15	14

**Junior**

Fall Semester Hours	Spring Semester Hours	
MU 3000	0 MU 3000	0
MU 3207 or 3208	2 MU 3050	0
MU 3315	3 MU 3316	3
MU 4256C	2 Select one of the following:	3
MUSE 3170	1 MU 4330	
MUSP 3230 & MUSP 3130	3 MU 4332	
Life and Physical Sciences	3 MU 4334	
POSI 2310	3 MU 4336	
	MUSE 3170	1
	MUSP 3230 & MUSP 3130	3
	Life and Physical Sciences	3
	POSI 2320	3
	17	16

**Senior**

Fall Semester Hours	Spring Semester Hours	
MU 4256C	2 MU 3318	3
Select one of the following:	3 MU 4050	0
MU 4330	MU 4185	1
MU 4332	MU 4255C	2
MU 4334	MUSE 3170	1
MU 4336	MUSP 4330	3
MUSE 3170	1 PHIL 1305 or 1320	3
MUSP 4330	3	
English Literature	3	
Social and Behavioral Sciences	3	
	15	13

Total Hours: 120

## Bachelor of Music (B.M.) Major in Performance (Jazz Concentration)

**Minimum required: 120 semester hours**

### Additional Requirements

1. Piano Proficiency (Level II)
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

**Freshman**

Fall Semester Hours	Spring Semester Hours	
MU 1000	0 MU 1000	0
MU 1210	2 MU 1212	2
MU 1211	2 MU 1213	2
MUSP 12xx	2 MUSP 12xx	2
MUSE 31xx (non-Jazz major ensemble)	1 MUSE 31xx (non-Jazz major ensemble)	1
MU 1150	1 MUSP 1136 (or MUSP 11xx)	1
MUSP 1135 (or MUSP 11xx)	1 ENG 1320	3
US 1100	1 Select one of the following:	3
ENG 1310	3 ART 2313	
Mathematic	3 DAN 231: MU 2313 TH 2313	
	16	14

**Sophomore**

Fall Semester Hours	Spring Semester Hours	
MU 2000	0 MU 2000	0

MU 2260	2 MU 2262	2
MU 2261	2 MU 2263	2
MUSP 22xx	2 MUSP 22xx	2
MUSE 31xx (Jazz major ensemble)	1 MUSE 31xx (Jazz ensemble)	1
MUSE 31xx (secondary ensemble)	1 MUSE 31xx (secondary ensemble)	1
MU 2303	3 HIST 1320	3
HIST 1310	3 Life and Physical Sciences	3
COMM 1310	3	
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	17	14

Fall Semester	Hours	Spring Semester	Hours	Summer	Junior Hours
MU 3000	0	MU 3000	0	MU 4343	3
MUSP 32xx	2	MUSP 32xx	2		
MUSE 31xx (Jazz major ensemble)	1	MUSE 31xx (Jazz major ensemble)	1		
MUSE 3127	1	MUSE 3127	1		
MU 3207	2	MU 3050	0		
MU 3233	2	MU 3375	3		
MU 3316	3	MU 3234	2		
MUSP 3131	1	MUSP 3132	1		
POSI 2310	3	Life and Physical Sciences	3		
		POSI 2320	3		
<hr/>					
	15		16		3

Fall Semester	Hours	Spring Semester	Hours	Senior
MUSP 42xx	2	MUSP 42xx	2	
MUSE 31xx (Jazz major ensemble)	1	MUSE 31xx (Jazz major ensemble)	1	
MUSE 3127	1	MUSE 3127	1	
MU 4354	3	MU 4050	0	
MU 4244	2	MU 4185	1	
English Literature	3	MU 4245	2	
		Social and Behavioral Sciences	3	
		PHIL 1305 or 1320	3	
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	12		13	

Total Hours: 120

## Bachelor of Music (B.M.) Major in Performance (Vocal Concentration)

Minimum required: 120 semester hours

### Additional Requirements

1. Piano Proficiency
2. Theory Proficiency
3. Upper Level Competency Review (ULCR)

Freshman			
Fall Semester Hours	Spring Semester Hours		
MU 1000	0 MU 1000	0	
MU 1150	1 MU 1212	2	
MU 1210	2 MU 1213	2	
MU 1211	2 Select one from the following:	1	
Select one of the following:	1 MUSE 3124		
	MUSE 3124	MUSE 3125	
	MUSE 3125	MUSE 3140	
	MUSE 3140	MUSE 3141	
	MUSE 3141	MUSP 1136	1
MUSP 1135	1 MUSP 1220	2	
MUSP 1220	2 ENG 1320	3	
ENG 1310	3 Select one of the following:	4	
US 1100	1 FR 1410		
TH 1364	3 GER 1410		
		ITAL 1410	
<hr/>			
	16	15	

Sophomore			
Fall Semester Hours	Spring Semester Hours		
MU 2000	0 MU 2000	0	
MU 2141	1 MU 2142	1	
MU 2260	2 MU 2262	2	
MU 2261	2 MU 2263	2	
MUSE 3106 or 3107	1 MU 2303	3	
MUSE 3140 or 3141	1 MUSE 3106 or 3107	1	
MUSP 1137	1 MUSE 3140 or 3141	1	
MUSP 2220	2 MUSP 1138	1	
Select one of the following:	4 MUSP 2220	2	
	FR 1420	HIST 1310	3
	GER 1420		
	ITAL 1420		
Mathematics Component	3		
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	17	16	

Junior		
Fall Semester Hours	Spring Semester Hours	
MU 3000	0 MU 3000	0
MU 3208	2 MU 3050	0
MU 3315	3 MU 3316	3
MUSE 3126	1 MU 4259	2
MUSE 3140 or 3141	1 MUSE 3140 or 3141	1
MUSP 3220	2 MUSP 3220	2

HIST 1320	3	Life and Physical Sciences Component	3
POSI 2310	3	POSI 2320	3
15		14	
<b>Senior</b>			
<b>Fall Semester Hours</b>		<b>Spring Semester Hours</b>	
MU 4257	2	MU 4050	0
MUSE 3099	0	MU 4185	1
MUSP 4220	2	MU 4259	2
English Literature	3	MUSE 3099	0
Life and Physical Sciences Component	3	MUSP 4220	2
Social and Behavioral Sciences	3	COMM 1310	3
		Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
		PHIL 1305 or 1320	3
13		14	

Total Hours: 120

## Bachelor of Science (B.S.) Major in Sound Recording Technology

Minimum required: 120 semester hours

### Additional Requirements

1. Upper Level Competency Review (ULCR)
2. Senior Portfolio Review

<b>Freshman</b>			
<b>Fall Semester Hours</b>		<b>Spring Semester Hours</b>	
MU 1210	2	MU 1212	2
MU 1211	2	MU 1213	2
MUSP 12xx	2	MUSP 12xx	2
MUSE 31xx	1	MUSE 31xx	1
MUSP 1135	1	MUSP 1136	1
MU 1180	1	MU 1182	1
US 1100	1	ENG 1310	3
PHYS 1315	3	PHYS 1325	3
PHYS 1115	1	PHYS 1125	1
MATH 2417	4	MUSP 2191	1
18		17	

### Sophomore

<b>Fall Semester Hours</b>		<b>Spring Semester Hours</b>	
MU 2260	2	MU 2182	1
MU 2261	2	MUSP 22xx	2
MU 2180	1	MUSE 31xx	1
MUSP 22xx	2	MU 3382	3
MUSE 31xx	1	MU 2303	3
MU 3381	3	MUSP 3191	1

MUSP 2192	1	ENG 1320	3
TECH 2370	3	COMM 1310	3
15		17	

### Junior

<b>Fall Semester Hours</b>		<b>Spring Semester Hours</b>	
MU 3383	3	MU 3384	3
MU 3180	1	MU 3182	1
MUSP 3192	1	MU 4182	1
MU 2313	3	TECH 3370	3
TECH 4372	3	POSI 2320	3
HIST 1310	3	HIST 1320	3
POSI 2310	3	PHYS 3301	3
17		17	

### Senior

<b>Fall Semester Hours</b>		<b>Spring Semester Hours</b>	
MU 4180	1	MU 4386	3
MU 4385	3		
TECH 4374	3		
English Literature	3		
PHIL 1305 or 1320	3		
Social and Behavioral Sciences	3		
16		3	

Total Hours: 120

## Minor in Jazz

A minor in Jazz requires 18 hours, including:

MU 3233	Jazz Theory and Improvisation I	2
MU 3234	Jazz Theory and Improvisation II	2
MU 3375	History of Jazz	3
MU 4245	Jazz Composition and Arranging	2
MU 4343	Jazz Pedagogy	3
MUSE 3127	Jazz Combo	1
MUSP 3131	Jazz Piano Techniques I	1
and 4 hours from:		4
MUSE 3160	Jazz Ensemble	
MUSE 3161	Jazz Orchestra	
MUSE 3162	Jazz Lab Band	

Total Hours 18

The Jazz minor is available only to students in the program for Bachelor of Music major in Music Studies, Instrumental Concentration.

## Minor in Mariachi

A minor in Mariachi requires 18 hours from the following:

MU 4156	Mariachi Arranging (Take 3 times)	3
MU 4157	Mariachi Ensemble Teaching Lab (Take 3 times)	3
MUSE 3103	Texas State Mariachi (Take 2 times)	2
MUSP 4164	Mariachi Melodia Techniques (Take 3 times)	3
MUSP 4165	Mariachi Armonia Techniques (Take 3 times)	3
and four hours from:		4

MUSP 1250	Applied Brass	
MUSP 1260	Applied String	
Total Hours		18

The Mariachi minor is available only to students in the Bachelor of Music major in Music Studies. Students must complete all four of the applied music hours on the primary instrument they play in the mariachi ensemble.

## Minor in Music

A minor in Music requires 18 hours, including:

### Lecture

MU 1312	Essential Musicianship	3
MU 2303	Survey of Music Literature	3
Select three hours from the following:		3

MU 3308	History of Rock	
MU 3318	World Musics	
MU 3375	History of Jazz	
MU 3380A	Women in Jazz	
MU 3380B	Music and Film	
MU 3380C	Rock Harmony	
MU 3380D	History of Blues	

### Performance

Select 6 hours from the following:		6
Any MUSE course		
Any MUSP course (with Departmental Approval)		
MU 3310	Guitar Class II	
	or MU 4310 Guitar Class III: Rock, Country, Blues	
	or MU 4312 Guitar Class IV: Rock, Country, Blues	

### Elective

3 hours of advanced (3000 or 4000 level) music courses <sup>1</sup>		3
Total Hours		18

<sup>1</sup> Not including MU 3315 and MU 3316.

## Minor in Opera

A minor in Opera requires 20 hours, including:

MUSE 3107	Opera Theatre <sup>1</sup>	2
TH 1365	Intermediate Acting	3
TH 2330	Stagecraft and Stage Lighting	3
TH 3360	Beginning Stage Combat	3
MUSE 3026	Student Chamber Music (2 semesters)	0
Choose ONE of the following: <sup>2</sup>		4
FR 1410	Beginning French I	
GER 1410	Beginning German I	
ITAL 1410	Beginning Italian I	
Choose TWO of the following courses:		2
DAN 1160	Beginning Jazz	
DAN 2161	Intermediate Jazz <sup>3</sup>	
DAN 1170	Beginning Recreational Dance	
DAN 1180	Beginning Ballet	

DAN 2181	Intermediate Ballet <sup>3</sup>	
DAN 1190	Beginning Modern Dance	
DAN 2191	Intermediate Modern Dance <sup>3</sup>	
PFW 1155B	Beginning Fencing	
PFW 1155C	Intermediate Fencing	
PFW 1155D	Advanced Fencing	
PFW 1155E	Fencing – Epee	
Choose ONE of the following:		3
TH 3330	Advanced Stagecraft	
TH 3343	Stage Makeup	
TH 3344	Costume Construction	
TH 3338	Stage Lighting	
TH 4334	Stage Management	
Total Hours		20

<sup>1</sup> Two semesters of this one credit course are required to complete this minor.

<sup>2</sup> The language requirement for the Opera Minor is separate from, and in addition to, the requirement found in the Music Performance - Voice Concentration degree program.

<sup>3</sup> A student must make an "A" in the beginning level course, to be allowed to register for intermediate level courses.

## Department of Theatre and Dance

Theatre Center Room 101

T: 512.245.2147 F: 512.245.8440

[www.theatreanddance.txstate.edu](http://www.theatreanddance.txstate.edu) (<http://www.theatreanddance.txstate.edu>)

The Department of Theatre and Dance provides classroom instruction and hands-on participation in the performance and production aspects of theatre, dance, film, television and web video.

All theatre majors take a sixteen hour core curriculum in the discipline, and then specialize in acting, technical production, performance and production, musical theatre, or certification to teach in the public schools. Graduates of the theatre program work as teachers, actors, designers, writers, producers, directors, and technicians in film, television, and theatre. Some have also gone on to pursue advanced degrees, conducting further preparation for the profession or preparing to teach at the college or university level.

Texas State's dance program prepares professional performers and choreographers and certifies teachers for the public schools. Students explore several forms of dance and learn to use those forms in educational and community settings. The role of dance as an art form and a means of developing sound aesthetic values are paramount in the program. Graduates work in public schools, private schools, private studios, and professional dance groups. Some have also gone on to pursue advanced degrees, conducting further preparation for the profession or preparing to teach at the college or university level.

## Special Requirements

Theatre majors must possess a 2.5 GPA to be eligible for casting in a major production and for admission into the Acting, Musical Theatre, and Technical Production programs. Students who are admitted to these three programs must maintain a 2.5 GPA to remain in the program.

Teacher certification majors in theatre and dance must maintain a 2.75. Students who fail to do so will be advised into another program.

## Bachelor of Arts (B.A.)

- Major in Theatre (p. 299)

## Bachelor of Fine Arts (B.F.A.)

- Major in Theatre (Acting Pre-Professional Option) (p. 299)
- Major in Theatre (Performance and Production Pre-Professional Option) (p. 301)
- Major in Theatre (Technical Production Emphasis) (p. 302)
- Major in Theatre (Teacher Certification in Theatre, Grades EC-12) (p. 302)
- Major in Musical Theatre (p. 303)
- Major in Dance (Dance Studies Emphasis) (p. 304)
- Major in Dance (Performance and Choreography Emphasis) (p. 305)
- Major in Dance (Single Field Teacher Certification in Dance, Grades 8-12) (p. 305)
- Major in Dance (Two Field Teacher Certification in Dance, Grades 8-12) (p. 306)

## Minors

- Theatre

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects included in this department: DAN (p. 288), TH (p. 291)**

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## Courses in Dance (DAN)

### DAN 1111. Freshman Dance Seminar.

Designed to orient incoming dance majors to several dance topics: dance appreciation, nutrition, time management, and career opportunities in dance. Also includes the practical component of assisting as crew members for dance productions

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### DAN 1114. Topics in Fitness Activities: Pilates.

Pilates exercise work is designed as a rehabilitative and physical improvement technique (body therapy) that is especially useful for dancers who have sustained injuries or want to avoid common dance injuries. Prerequisites: Intermediate level dance

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### DAN 1160. Beginning Jazz.

Beginning levels of jazz dance technique including basic jazz walks and weight shifts, isolations, stretches, and dance combinations. Combinations are designed to challenge and enhance the students' knowledge of the various styles and "schools" of jazz dance and to develop performance and choreographic abilities in these styles. This course is also offered as PFW 1180A

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1147

### DAN 1170. Beginning Recreational Dance.

Recreational dance includes international folk dance, square dance, and ballroom dance. Students will learn specific dances from each of these styles and gain an understanding and appreciation of the role of dance in societies and culture. This course provides an opportunity for students to explore the elements of dance as a way to discover movement as an expressive medium. This course is also offered as PFW 1180J

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1128

### DAN 1180. Beginning Ballet.

Introduction to the basic technique and steps of the classical ballet. Basic barre exercises and basic positions and traveling steps of the ballet movement vocabulary will be taught and practiced for mastery, singly and in combination. Students are expected to gain an understanding of ballet as a performing art through historical as well as practical experience. May be repeated once for credit

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DANC 1141

### DAN 1190. Beginning Modern Dance.

Basic modern dance technique and movement vocabulary are introduced and practiced for mastery. Biomechanical principles and the elements of dance are introduced. Elementary choreographic experiences will be included. This course is also offered as PFW 1180G

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1145

### DAN 2161. Intermediate Jazz.

(DANC 1148) Intermediate levels of Jazz dance techniques include complex weight shifts, syncopations, coordinations, and isolation techniques. Exercise and floor combinations are designed to challenge and improve previously obtained motor skills and to enhance the knowledge of correct mechanics of dance as a performing art. Prerequisite: DAN 1160 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**DAN 2181. Intermediate Ballet.**

(DANC 1142) Intermediate level ballet barre, center, position, and transitional patterns of the classical ballet will be introduced and practiced for mastery. Emphasis will be on quick mastery of simple to complex combinations of those patterns plus an understanding of the biomechanical basis of each pattern. Restricted to Dance majors only. May be repeated once for credit. Prerequisite: DAN 1180 with a grade of A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 2191. Intermediate Modern Dance.**

(DANC 1146) Intermediate modern dance skills are introduced and practiced for mastery. Students are expected to learn and perform combinations with skill and artistry, demonstrating a working knowledge of biomechanics and performance techniques. Application of movement principles is emphasized. Prerequisite: DAN 1190 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 2201. Dance Composition I.**

This course utilizes improvisation as a creative dance technique in designing new movements for choreography. Using current trends in improvisational materials, this course places emphasis on designing original movement while facilitating students in maintaining aesthetic forms and developing artistic discrimination. Prerequisite: DAN 1190

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 2202. Dance Composition II.**

Basic principles of dance composition will be applied to solo choreography emphasizing skilled use of space, dynamics, and rhythm to build artistic compositions. Exploration of crafting materials in authentic expression will be facilitated. Prerequisite: DAN 1190 or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 2210. Contact Improvisation.**

Improvisational movement techniques that explore weight-sharing, non-verbal communication, sensory awareness, risk-taking, and physical and emotional trust. Students will gain the physical and perceptual skills to enhance performance in all areas of creative expression. Principles will be applied through movement training, discussion, and performance.

Prerequisite: DAN 2191

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1201

**DAN 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, MU 2313, or TH 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**DAN 2365. Creative Movement for Children.**

Emphasis on rhythmical movement exploration and using creative movement as both an art form and as a teaching tool. Through class activities, students will develop effective facilitator skills and incorporate innovative strategies for teaching traditional material in non-traditional ways. Prerequisite: DAN 1190

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**DAN 3151. Musical Theatre Tap I.**

This class covers the basic steps of tap technique. Students learn coordination, rhythmic variations, and performance skills through a series of tap combinations. Prerequisite: DAN 2161

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3152. Musical Theatre Tap II.**

This class expands on skills covered in Musical Theater Tap I. Basic steps are perfected and more difficult steps and combinations are learned. Longer sequences set to musical theatre music are mastered, and attention is given to ensemble work, rhythmic variations, and performance skills. Prerequisite: DAN 3151

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3162. Advanced Jazz.**

Advanced levels of jazz dance technique include more complex coordinations and combinations requiring increased levels of technique, strength and flexibility. Emphasis is on developing ability to quickly master increasingly challenging choreography while continuing to develop new skills. There is a continuing emphasis on biomechanics and choreography. May be repeated once for credit. Prerequisite: DAN 2161 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3171. Musical Theatre Dance I.**

This course involves the study of dance as it applies to musical theatre performance. It covers some of the styles that make up musical theatre including character dancing, the Charleston, and various ballroom dances. Prerequisite: DAN 2181

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3172. Musical Theatre Dance II.**

This course involves the study of dance, movement, and staging for musical theatre and culminates in student choreographed/staged works from a variety of musical theatre productions. It includes strategies for learning and performing dance combinations as they occur in a professional dance audition. Prerequisite: DAN 3171

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3182. Advanced Ballet.**

This course is an introduction of the advanced concepts and principles of classical ballet. The class is designed to develop proper alignment, strength, flexibility, coordination and musicality. Restricted to Dance Majors. May be repeated once for credit. Prerequisite: DAN 2181 with a grade of A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3292. Advanced Modern Dance.**

Advanced modern dance skills are introduced and practiced for mastery. Students are expected to learn and perform increasingly complex combinations with skill and artistry, demonstrating a mastery of biomechanical principles and performance. Dance majors and minors are expected to develop a high level of skill in this dance style as the primary dance form for their teaching and performing preparation. Repeatable for credit with different emphasis. Prerequisite: DAN 2191 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3313. Introduction to Fine Arts.**

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3330. Dance Curriculum Development.**

Course builds on a requisite knowledge of basic educational theory and lesson plan structure with an emphasis on developing and implementing a successful Dance curriculum. Practical and effective strategies for teaching middle school and high school Dance will be examined.

Prerequisites: DAN 1170, DAN 1180, and DAN 1190

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 3332. Dance Concert Production.**

Develop skills required to plan and execute dance concerts in standard educational institutions, as well as professional venues. Orientation to technical theatre and design concepts for performance: lighting, stage management, make-up, costuming, and music selection. Students will also become acquainted with strategies for programming, marketing, publicity, and fund-raising for dance concerts. Prerequisite: Junior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3340. Dance Touring Ensemble.**

Learning and performing dances from the repertory of current faculty members, artists-in-residence, and from the repertory of historic modern dancers. Dances performed locally and regionally. Enrollment by audition only. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3345. Video Dance.**

The class is geared particularly towards dance makers and principally towards dance majors. The central objective is to enable the participants to create choreographic work for the camera, through the analysis and discussions of a selection of screenings as well as through hands-on work. Collaboration and cooperation is encouraged throughout the process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3350. Dance Team Directing.**

Develop skills required to direct a performing dance team. Topics include choreography, administrative organization, public relations and communication skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 3365. Rhythmic Structure of Movement.**

The structural analysis of basic and complex dance movements, their inherent rhythmic configuration. Understanding of movement and its rhythmic structure and correction of movement errors. Practical experience in percussion accompaniment of these movements will be emphasized. Prerequisites: DAN 2201 and DAN 2202

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3366. Laban/Bartenieff Movement Analysis.**

Labanotation Theory & practice of the Laban Effort-Shape Movement System and its application toward creative expression. Theory and practice of Bartenieff Fundamentals, a movement training which patterns efficient connectivity in the body with emphasis on full psychophysical involvement in personal expression. Basic skill in reading and writing Labanotation will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3367. Dance Performance Workshop.**

Designed to give the advanced dance student experience in learning and performing varied styles of dance choreography. Established dance works and experimental works will be included in order to develop a professional level ability to learn, remember and perform a wide repertory of choreography. Prerequisite: DAN 1191, or PFW 1180H, or DAN 1192, or PFW 1180I

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3370. Dance Composition III.**

Opportunity for students to increase knowledge and understanding of dance composition elements as they relate to group forms, theme, development, and phrase manipulation. Prerequisites: DAN 2201, DAN 2202, and DAN 2191. Restricted to dance majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4171. Musical Theatre Dance III: Pre 1970s Choreography.**

This course provides an examination of the history and development of musical theatre dance styles, including an in-depth study of significant works of choreographers before 1970, from Agnes DeMille to Jerome Robbins. Prerequisite: DAN 3172

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4172. Musical Theatre Dance IV: Post 1970s Choreography.**

This course provides an examination of the history and development of musical theatre dance styles, including an in-depth study of significant works of choreographers after 1970, including Bob Fosse, Michael Bennett, Ann Reinking, and Susan Stroman. Prerequisite: DAN 4171

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4292. Advanced Principles.**

Students analyze and perform advanced principles based in dance technique, and somatic approaches to dance training. Students develop a high level of conceptual mastery and physical skill for their teaching and performing preparation. May be repeated once for credit. Prerequisite: DAN 3292 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4330. Dance Kinesiology.**

This course is an experiential study of the human body in rest and in motion. Emphasis will be on the skeletal and muscular systems in consideration of applications to dance performance, teaching and creative processes, and injury prevention and rehabilitation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4334B. Choreographic Influences in Dance.**

The purpose of this course is to investigate how many single important dancers, particular school or movements in dance, artistic and technological developments and political, sociological and other world events have shaped choreographic trends in dance. Prerequisite: upper division standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DAN 4334C. Costuming for Dance.**

This course provides a practical approach to designing and building costumes for dance. Emphasis is placed on basic stitching techniques, introductory patterning, concepts of design for dance and collaborating with other artists. Practical experience with university productions will be required in the laboratory. Prerequisites: DAN 2202 and DAN 2191

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DAN 4350. Musical Concepts for Dance Performance.**

Provides dance majors with a working knowledge of the essential vocabulary of music-rhythm, melody, form and harmony, together with an overview of musical styles throughout both time and geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4360. Dance Independent Study.**

Designed to give supervised experience to qualified advanced students in dance. Independent study on research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4366. Writing and Reading About Dance.**

Surveys dance literature including an opportunity for students to familiarize themselves with resources, current publications, theoretical materials, and professional organizations in dance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4367. Advanced Dance Composition: Theory and Practice.**

Students will choreograph, costume, and design lights for a group dance of substantial length, justifying artistic choices in an accompanying documented paper. The results of this course will be a senior dance concert. May be repeated once for credit. New material will be covered each time taught. Prerequisites: DAN 2181, DAN 2201, DAN 2202, and DAN 3292

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4368. World Dance and Culture.**

This course provides an introduction to the study of dance cultures in diverse contexts around the world. Lectures, group discussions, and writing projects will increase awareness of dance and human movement as cultural knowledge. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4369. Dance in the 20th and 21st Centuries.**

Exposure to a wide variety of literature in the area of dance, the arts and sciences which specifically address the development of dance as an art-form and cultural phenomena in the 20th and 21st Centuries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4470. BFA Senior Concert.**

A course that provides a practical opportunity to choreograph, perform, and produce a dance concert. Students will engage in the creative, administrative, and promotional aspects of production. Students will also compile a thesis booklet. Prerequisites: Must be a Senior standing and have completed DAN 3292 and DAN 3370

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Theatre (TH)

**TH 1210. Introduction to Musical Theatre.**

This course focuses on foundations for training for a professional career in musical theatre, with particular emphasis on interview and audition skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1211. Introduction to Musical Theatre II.**

This class continues the foundational work established in TH 1210 Introduction to Musical Theatre. It further develops the interview and audition skills necessary for a professional career in musical theatre.

Prerequisite: TH 1210

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1340. Voice and Diction.**

The human voice and the sounds of speech. The student's own voice and pronunciation will be the primary concern, using practice sessions to develop more acceptable patterns of voice and sound

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DRAM 2336

**TH 1345. Beginning Voice.**

This course teaches basic principles of vocal production and its anatomy, including vocal variety and instinctual choice. It emphasizes proper vocal support, range, flexibility and health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1350. Introduction to Theatrical Design.**

Course introduces the freshman theatre major to the four primary areas of theatrical design: costume design, scenic design, sound design, and lighting design. Each area's practice is explored and analyzed through a series of exercises that incorporate design projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1354. Movement I.**

Creative movement for the theatre. Designed to stimulate the actor's body to increase flexibility and the kinetic response to environmental stimulus through exercise and research into the physical process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1322

**TH 1355. Movement II.**

A continuation of Movement I and the exploration of kinesthetic response for the actor, using movement techniques in class performances and further research into the techniques of Alexander, Feldenkrais, and Laban.

Prerequisite: TH 1354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1358. Stagecraft.**

The study and practice of basic theatrical scenery construction which includes the use of power tools, various construction materials, construction techniques and basic stage rigging. Includes laboratory work in conjunction with University Theatre productions

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1330

**TH 1364. Beginning Acting.**

Beginning Acting. (2-1) Classroom exercises designed to explore and discover the actor's inner resources, and to develop the personal awareness of the student's imaginative potential. May be taken by non-majors independently

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1351

**TH 1365. Intermediate Acting.**

Intermediate Acting. (2-1) Classroom exercises designed to continue the exploration of the actor's inner resources; additional work on discovering techniques of developing a character. May be taken by non-majors independently. Prerequisite: TH 1364 or equivalent

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1352

**TH 2111. Theatre Activities.**

A course designed to provide credit for participation in theatre activities. May be repeated to a total of four credits

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1120

**TH 2210. Intermediate Musical Theatre I.**

This course focuses on intermediate interview and audition skills, intermediate personalizing the lyric skills, intermediate marketing skills, and basic scene study skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2211. Intermediate Musical Theatre II.**

This course focuses on intermediate musical theatre theory and analysis, acting through movement, and scene study of both period and contemporary musical theatre works

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, DAN 2313, or MU 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**TH 2330. Stagecraft and Stage Lighting.**

This class teaches the facilities, tools, materials and techniques used to build scenery safely and effectively in the modern theatre. It also covers the facilities, tools, and techniques used to safely and effectively read a light plot, hang and focus stage lighting instruments. It includes a hands-on lab

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 2345. Experiencing Speech.**

This class focuses on the understanding of and the ability to use speech articulators in order to allow full, healthy production of all the sounds made in human language. While breaking chronic speech patterns, it aims for full speech flexibility and ability to healthfully create any sound the character requires. Prerequisite: TH 1345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2354. Characterization.**

A studio acting course in which the student explores and develops techniques of creating a role. Prerequisite: TH 1365 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 2351

**TH 3111. Theatre Activities.**

This course is designed to provide credit for participation in theatre activities. It typically involves working on a departmental production. May be repeated for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3120. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: MUSP 1121 and status as a Musical Theatre Major

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3220. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: MUSP 1121 and status as a Musical Theatre Major

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3310. Intermediate Voice.**

Continuing development of the fundamentals of voice and speech for the stage as well as exploring language and text. Practical application through assignments and in-class exercises. Prerequisite: TH 2345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3313. Introduction to Fine Arts.**

Introduction to Fine Arts. (3-0) This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3320. History of the Theatre I.**

A study of the theatre and its place in the social and cultural evolution from primitive civilization to 1700. Selected examples of theatre literature are studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3321. History of the Theatre II.**

A study of the theatre and its place in the social and cultural evolution from 1700 to the present. Selected examples of theatre literature are studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3322. History of Musical Theatre.**

Course examines the history of musical theatre, from its antecedents through its Golden Age to present-day issues. In the process students will study musical theatre's elements and structure, as well as its creators, including major librettists, composers, lyricists, designers, directors, choreographers, and performers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3330. Advanced Stagecraft.**

This course covers the facilities, tools, materials, equipment and techniques used to safely produce, from a technical standpoint, live theatrical performances. The course includes woodworking, metal working, stage rigging, stage lighting, audio and, in general, good stage hand practices. Prerequisite: TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3338. Stage Lighting.**

This course in stage lighting design assumes basic knowledge of lighting technology equivalent to that learned in TH 2330. This class encompasses research, observation, group discussion, and practical "hands-on" projects with emphasis on learning to see light and developing a common language for light and the lighting design process. Prerequisite: TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3342. Television/Film Performance.**

A practical laboratory course in television and film performance techniques, including procedures and requirements for professional engagements. May be repeated with different emphasis for additional credit. Prerequisite: TH 1364

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3343. Stage Makeup.**

A practical course in developing techniques used in applying stage makeup. Emphasis is placed on painting, and contouring the face to achieve the desired effect. Special projects include fantasy makeup and mask making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TH 3344. Costume Construction.**

A practical approach to building costumes for the stage. Emphasis is on stitching techniques and introductory patterning. Practical experience with university productions required in laboratory

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 3346. Historical Costume Research.**

Historical Costume Research. (3-2) A study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3350. Technical Production.**

This course provides hands-on experience to qualified advanced students in technical theatre utilizing a series of rotating topics. Selected topics may include stage rigging, sound systems, remote device management, technical direction and/or technical writing/drawing. May be repeated for credit with different emphasis. Prerequisite: TH 2330 and approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3355. Playwriting.**

A study of play fundamentals (structure, dialogue, and mechanics), and guidance and discussion of representative plays. Prerequisite: Instructor approval is required prior to enrollment. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3358. Screenwriting.**

This course offers a comprehensive study of the art and craft of writing screenplays. During a semester of intensive writing, readings, script analysis, and critiques, writers complete assignments in storytelling, character, structure, and script development. Each writer completes a full-length screenplay as the capstone project for the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**TH 3359. Advanced Screenwriting.**

This course focuses on the development of full-length screenplays. May be repeated for credit with different emphasis. Prerequisite: TH 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3360. Beginning Stage Combat.**

An introductory course in stage combat. A hands-on approach with emphasis placed upon actor safety, dramatic requirements of the script, and historical accuracy. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3364. Acting Realism.**

A studio course emphasizing the theories and methods of Stanislavsky in order to create characters in realistic drama. Prerequisite: TH 1365

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3365. Acting Styles.**

A studio course emphasizing the theories and methods of Stanislavsky in order to create characters in realistic drama. Prerequisite: TH 1365

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3367. Theory and Analysis.**

A study of dramatic theory and play analysis for production, including the study of forms, styles, and methods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3370. Creative Drama.**

Emphasis on process drama theory and using creative drama as both an art form and as a teaching tool. Through class activities, students will develop effective facilitator skills and incorporate innovative strategies for teaching traditional material in non-traditional ways

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3390. BFA Pre-Professional Apprenticeship I.**

Intensive work in one of the following career paths: Acting, design, and theatre technologies, costuming. Prerequisite: Formal admission into the Bachelor of Fine Arts Pre-professional Program

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4120. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: TH 3120 or TH 3220 and Senior status as a Musical Theatre Major

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4301. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry. May be repeated once for credit. Prerequisite: Consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4310. Theatre Curriculum Development.**

Course builds on a requisite knowledge of basic educational theory and lesson plan structure with an emphasis on developing and implementing a successful Theatre curriculum. Practical and effective strategies for teaching middle school and high school Theatre will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 4320. Directing Theatre Activities.**

Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4323. Shakespeare Through Performance.**

This intensive summer study abroad program immerses students in the language and culture of Shakespeare's plays. Incorporating a performance-based approach to the study of Shakespeare, this course includes theatrical workshops taught by professionals at leading international theatres, including the Royal Shakespeare Company

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4324. Shakespeare: Text and Context.**

This intensive study abroad program immerses students in the language and culture of Shakespeare's plays. In Stratford, academic workshops are led by scholars from the Shakespeare Birthplace Trust. Through immersion in the cultural environment in which the plays were produced, students gain insight into the context that shaped Shakespeare's theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4330C. Improvisation for the Actor.**

This course teaches improvisational skills for actors via the use of theatre games and experiential exercises. This course is repeatable one time for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330D. Actor, Artist, Aesthetic.**

This course focuses on group and individual created works of art. Students will explore their personal artistic aesthetic and create a piece that will be performed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330F. Singing for the Actor.**

This course focuses on developing the vocal instrument and singing skills for actors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330G. Design for Educational Theatre.**

The course consists of three sections covering Scenic Design, Lighting Design and Production Elements. It is intended for Teacher Certification students with the goal of providing the tools to be successful when dealing with limited resources, reduced personnel and challenging theatre venues at their schools. Prerequisite: TH 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330H. Technical Theatre Intensive.**

This course provides the technical skills necessary to work effectively as a high school or middle school theatre teacher. It focuses on the facilities, tools, materials and techniques used to build scenery safely and effectively in the modern theatre. Laboratory meetings extend the lecture subjects with practical examples and experiences. Prerequisite: TH 4330G

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics

**Grade Mode:** Standard Letter

**TH 4330I. Theatre Drafting.**

This course is a study of manual drafting techniques for scenery and lighting designers and technicians. It is required for all BFA scenic and lighting students. Prerequisite: TH 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330J. Drawing for the Designer.**

This course is a studio class with a focus on drawing for the scenic, lighting, and costume design student. Required of all BFA design majors. Prerequisite: TH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330K. Painting for the Designer.**

This course is a studio class that will explore painting techniques for the theatrical designer. Required of all BFA design majors. Prerequisite: TH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330L. Welding for the Stage.**

Welding for the Stage. (3-0) This course offers a hands-on study of the principles and practices utilized in the fabrication of steel framed stage scenery for the live entertainment industry. Emphasis will be on safely cutting and welding mild carbon steel using gas metal arc welding. Includes joint design and cost estimation. Prerequisite: TH 3330 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330M. Advanced Stage Management.**

The goal of this course is to examine stage management and hone the necessary skills in the areas of theatre, dance, festivals, live events, showcases, and opera. Prerequisite: TH 4334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330N. Company and Production Management for the Arts.**

The goal of this course is to examine the job duties (and overlapping tasks) of members of a theatrical producing arts team with a focus on Company and Production Managers. There will be an emphasis on group management and organizational tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330P. Teaching Artists in Schools and Communities.**

What is a teaching artist? This course will examine the current and historical role of theatre artists applying their knowledge and skills in school and community-based settings. Our discussions will be framed by a practical fieldwork experience in a school or community location

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330Q. Contemporary Theatre Workshop.**

This course examines the landscape of contemporary theatre. Students will read, analyze, and perform scenes from dramatic literature written from the 1990s to the present. It will examine what kinds of artistic trends, styles, and issues are at play in contemporary theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330R. Oregon Shakespeare Festival Intensive.**

This course examines theatre production at the regional theatre level by exposing students to the work of the Oregon Shakespeare Festival. Students will study issues of translating the current season's nine plays from script to stage, as well as analyze the perspectives and choices that inform each production

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330S. Ethnic Theatre Workshop.**

This course explores the creative challenges of performing selections from the African American, Latino American, Native American, and Asian American experience. Students will work with poetry, folktales, monologues, and duet scenes. The course will also include an overview of the literature and history of Ethnic Theatre in America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330T. Film Editing.**

This course provides an examination of visual, auditory, and special effects editing techniques for film. It includes practical projects for editing commercials, documentaries, and/or narrative films. Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330U. Sound Technology.**

This course provides an understanding of audio technology, the components of sound systems and their application for live entertainment, including theatre and dance productions. It includes hands-on work in the theatre on departmental productions. Prerequisites: TH 1350 and TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330V. Sound Design.**

This course provides an understanding of sound design and its application for live entertainment, including theatre and dance productions. It involves an exploration of the sound design process and practical application through class projects. Prerequisite: TH 4330U

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330W. Television Writing.**

This course focuses on the techniques of writing for television, including both half-hour situational comedies and hour-long dramas. Students will pitch story ideas, develop beat sheets, write treatments, and complete written scripts. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330X. Drama and Adaptation.**

This course focuses on the development of new theatrical scripts based on existing stories and source material. Students will explore a variety of potential source materials, pitch adaptation ideas, and complete a written script. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330Y. Film Lighting.**

This course provides an understanding of the principles, techniques and equipment used in lighting for film. It involves consideration of both technical and design elements. Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4332. Theatre in Education.**

This course provides an in-depth examination of Applied Theatre as it is used in a variety of settings, including elementary and middle school classrooms, recreation facilities, and in community outreach programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4334. Stage Management.**

This is a seminar course in stage management, focusing on organization, techniques, and practices for managing stage productions from initial planning through performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4335. Stage Management Practicum.**

This course is a hands-on practicum in which select students stage manage a departmental production, from auditions through the completion of the production. Prerequisite: TH 4334

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4338. Lighting Design.**

Lighting design is a continuation of the principles covered in Stage Lighting. This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color, script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design. Prerequisite: TH 2338. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4340. Business of Film.**

This course focuses on how film projects are put together, from development to production, with an emphasis on job opportunities that are available in the film industry. Where applicable, working professionals are brought in as guest lecturers to provide a hands-on perspective of working in the film industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4341. Short Film Development.**

This course focuses on the essential elements that go into the pre-production phase of developing a short film project. Emphasis is on script research, writing, budgeting, scheduling, finance, and development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4345. Costume Design.**

A study of the principles and elements to relate to designing theatrical costumes. Includes experience in research as well as developing drawing and rendering techniques. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4346. Advanced Costume Design.**

Continued development of costume design skills. Includes research as well as advanced drawing and rendering techniques. Repeatable for credit with different emphasis. Prerequisites: TH 3344 and TH 4345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4347. Advanced Costume Construction.**

An advanced course in building costumes for the stage. Advanced techniques in sewing as well as pattern design and drafting is included. Repeatable for credit with different emphasis. Prerequisite: TH 3344

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4355. Scene Painting.**

Theory and practice of scene painting for the theatre, with hands-on projects implementing various scene-painting techniques. Students will also have the opportunity to work as scenic artists on departmental productions

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4356. Advanced Theatre Drafting.**

A study of computer techniques and procedures used in the preparation of design and technical drawings for theatrical drafting. Prerequisite:

TH 4390 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4357. Scene Design.**

A study of scene design for theatre, focusing specifically on process of scenic designer with practical assignments including renderings and scaled models. Prerequisites: TH 1358 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4360. Problems in Theatre.**

Problems in Theatre. (3-0) Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4361. Dialects For Actors.**

A study of the International Phonetic Alphabet and other vocal techniques used to create vocal variations such as regional, national, and international dialects. Prerequisite: TH 3310

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4363. Directing For Film.**

An in-depth examination of directing theories and procedures for film with practical filming and editing exercises

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4364. Directing I.**

A study of the fundamentals of directing with practical experience provided by directing scenes. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 4365. Directing II.**

A study of directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: TH 4364. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter



**TH 4370. Children's Theatre.**

Continuation of Creative Dramatics, and the theory and practice related to all phases of producing plays for and with young people through junior high school age. Practical experience in a University production as required for one semester. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4372. Theory and Practice of Dramaturgy.**

Study of the practical application of historical research and textual analysis in the production of period plays and new works. Emphasis upon the dramaturg as an instrument of collaboration between members of the artistic team and as a facilitator of audience outreach. Prerequisite: TH 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4373. Advanced Film Directing.**

An in-depth examination of narrative filmmaking that includes screenplay analysis, storyboarding, scheduling the shoot, directorial techniques, staging actors, camera placement, filming on location, and editing.

Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4375. Advanced Playwriting.**

This course focuses on an in-depth study of the techniques of playwriting and the variety of styles that a playwright might employ. The course culminates with the writing of a full-length play. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4376. Advanced Lighting Design.**

This course focuses on advanced principles of light design and lighting aesthetics. It covers the variable elements one encounters during the design process as it applies to stage lighting. Prerequisite: TH 4338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4377. Advanced Scene Design.**

This course emphasizes working with directors and other designers in creating a design for the stage. Students will improve verbal and visual communication skills as well as further develop drawing/painting/modeling/drafting skills. The course involves multiple projects including creating an original performance art piece with a director and other designers. Prerequisite: TH 4357

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4378. Play Development Lab.**

This course provides a laboratory workshop development process for new plays. It provides a structured environment for rigorously revising student-written works. Prerequisite: TH 4375 or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4390. BFA Pre-Professional Apprenticeship II.**

Intensive laboratory work in individual and group theatre methods for the actor, designer, or technician. Each apprenticeship from BFA II to V will focus upon a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4391. BFA Pre-Professional Apprenticeship III.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 4392. BFA Pre-Professional Apprenticeship IV.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4393. BFA Pre-Professional Apprenticeship V.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4395. Advanced Scene Study.**

This course is a capstone acting course for the B.F.A. Acting and Musical Theatre students that involves both advanced scene study work as well as preparation for professional auditions and showcases. Restricted to seniors in the B.F.A. Acting and Musical Theatre programs

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 4601. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry; it is intended for students who do a full-time internship over the summer or during the fall or spring semesters. Prerequisite: Consent of instructor. 186 Texas

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



## Bachelor of Arts (B.A.) Major in Theatre

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete a minimum of 35 hours in Theatre, with six additional hours strongly recommended. A minimum of 12 TH hours must be advanced.
2. General education core curriculum and BA degree requirements must be met. **Elective hours may be needed to reach the minimum number of hours for the degree.**
3. All theatre majors are encouraged to participate in theatre production activities each semester, and BA students must enroll in TH 2111 a minimum of two semesters.

Freshman	Hours
TH 1350	3
TH 1354	3
TH 1364	3
TH 1365	3
TH 2111	1
US 1100	1
ENG 1310	3
ENG 1320	3
COMM 1310	3
POSI 2310	3
POSI 2320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
	32
Sophomore	Hours
TH 2111	1
TH 2330	3
TH Elective	3
Mathematics	3
HIST 1310	3
HIST 1320	3
Social and Behavioral Sciences	3
English Literature	3
PHIL 1305 or 1320	3
Modern Language 1410	4
Modern Language 1420	4
	33
Junior	Hours
TH 3320	3
TH 3321	3
TH 3344 or 3346	3
Life and Physical Sciences	6
Minor	9
Modern Language 2310	3

Modern Language 2320	3
	30
Senior	Hours
TH 4364	3
TH Elective	3
Minor	9
BA English Literature	3
BA Additional Math, Science or Logic	3
Free Electives	4
	25

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Theatre (Acting Pre-Professional Option)

**Minimum required: 125 semester hours**

### General Requirements

1. Admission to the B.F.A. in Theatre with an emphasis in Acting is highly competitive and based on an audition/interview with the Bachelor of Fine Arts Review Committee. Prospective students audition during their senior year of high school. Interested transfer students must contact the Head of Acting to see if there are any available slots in their class level; typically, transfer students require more than the usual 4 years to complete their degree. Students in the program are always on probation, with their work and progress continually evaluated. There is a formal review at the end of the sophomore year that determines whether each student may advance to the upper-level training.

Freshman	Hours
TH 1345	3
TH 1350	3
TH 1354	3
TH 1364	3
TH 1365	3
TH 2111	1
ENG 1310	3
ENG 1320	3
COMM 1310	3
POSI 2310	3
POSI 2320	3
US 1100	1
	32
Sophomore	Hours
TH 1355	3
TH 2345	3
TH 2354	3
TH 3343	3
TH 3364	3
Select one of the following:	3
ART 2313	

DAN 2313	
MU 2313	
TH 2313	
HIST 1310	3
HIST 1320	3
Social and Behavioral Sciences	3
Mathematics	3

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**30**

<b>Junior</b>	<b>Hours</b>
TH 3310	3
TH 3320	3
TH 3321	3
TH 3360	3
TH 3390	3
TH 4390	3
PHIL 1305 or 1320	3
English Literature	3
Life and Physical Sciences	6

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**30**

<b>Senior</b>	<b>Hours</b>
TH 3342	3
TH 3367 <sup>1</sup>	3
TH 4361	3
TH 4364	3
TH 4395	3
TH 3365	3
TH 4391	3
TH 4392	3
TH 4393	3
Acting Area Electives	6

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**33**

Total Hours: 125

<sup>1</sup> Oregon Shakespeare Festival Intensive can be substituted for TH 3367, Dramatic Theory.

### Acting Area Electives

TH 4330F	Singing for the Actor	3
TH 4330D	Actor, Artist, Aesthetic	3
TH 4330C	Improvisation for the Actor	3
TH 4323	Shakespeare Through Performance	3
TH 4324	Shakespeare: Text and Context	3
DAN 1160	Beginning Jazz	1
DAN 2161	Intermediate Jazz	1
DAN 3151	Musical Theatre Tap I	1

## Bachelor of Fine Arts (B.F.A.) Major in Theatre (Design/Technology Pre-Professional Option)

**Minimum required: 120 semester hours**

### General Requirements

1. Admission to the B.F.A. in Theatre with an emphasis in Design and Technology is based on an audition during their sophomore year by taking the B.F.A. I class. At the conclusion of that class, the student's work is reviewed by the Design/Tech faculty and staff, and a decision whether to admit to the program is made.
2. A minimum of 36 advanced hours are required.
3. General education core curriculum requirements must be met.
4. All Theatre majors are encouraged to participate in theatre production activities each semester.

<b>Freshman</b>	<b>Hours</b>
TH 1350	3
TH 2330	3
TH 1364	3
TH 2111	1
ENG 1310	3
ENG 1320	3
POSI 2310	3
POSI 2320	3
COMM 1310	3
Mathematics	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
US 1100	1

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**32**

<b>Sophomore</b>	<b>Hours</b>
TH 3344	3
TH 3390	3
TH 4390	3
TH 3320	3
TH 3321	3
TH 4330J	3
English Literature	3
HIST 1310	3
HIST 1320	3
Social and Behavioral Sciences	3

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**30**

<b>Junior</b>	<b>Hours</b>
TH 4391	3
TH 4392	3
TH 4338	3
TH 4345	3
TH 4357	3

TH 4330I	3
TH 4330K	3
TH Advanced Design/Tech Elective <sup>1</sup>	3
Life and Physical Sciences	6

30

Senior	Hours
TH 3367	3
TH 4364	3
TH 4393	3
TH Advanced Design/Tech Elective <sup>1</sup>	9
General Electives	7
PHIL 1305 or 1320	3

28

Total Hours: 120

<sup>1</sup> Non-specified advanced TH classes are chosen in consultation with academic advisor.

### TH Advanced Electives

TH 3343	Stage Makeup	3
TH 3346	Historical Costume Research	3
TH 4330L	Welding for the Stage	3
TH 4338	Lighting Design (Can be repeated)	3
TH 4345	Costume Design (Can be repeated)	3
TH 4347	Advanced Costume Construction	3
TH 4355	Scene Painting	3
TH 4356	Advanced Theatre Drafting	3
TH 4357	Scene Design (Can be repeated)	3

## Bachelor of Fine Arts (B.F.A) Major in Theatre (Performance and Production Pre-Professional Option)

Minimum required: 120 semester hours

### General Requirements

1. General education core curriculum requirements must be met
2. A minimum of 36 advanced hours are required.
3. All Theatre majors are encouraged to participate in theatre production activities each semester.

Freshman	Hours
TH 1340 or 1354	3
TH 1350	3
TH 1364	3
TH 1365	3
TH 2111	1
ENG 1310	3
ENG 1320	3
POSI 2310	3
POSI 2320	3
COMM 1310	3
US 1100	1

29

Sophomore	Hours
TH 2330	3
TH 3344 or 3346	3
TH electives	9
HIST 1310	3
HIST 1320	3
English Literature	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
Mathematics	3

30

Junior	Hours
TH 3320	3
TH 3321	3
Select one of the following:	3
TH 4338	
TH 4345	
TH 4357	
Select two of the following:	6
TH 3342	
TH 4363	
TH 4340	
TH 4341	
TH Advanced Electives	3
Life and Physical Sciences	6
PHIL 1305 or 1320	3
Social and Behavioral Sciences	3

30

Senior	Hours
TH 3367	3
TH 4364	3
TH 4365	3
Select one of the following:	3
TH 4345	
TH 4338	
TH 4357	
TH Advanced Electives	6
General Electives	13

31

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Theatre (Technical Production Emphasis)

**Minimum required: 120 semester hours**

### General Requirements

1. Admission to the B.F.A. in Theatre with an emphasis in Technical Production is based on successful completion of TH 1350 and TH 2330 during the Freshman year and approval of the Head of Technical Production emphasis area.
2. General education core curriculum requirements must be met.
3. All Theatre majors are encouraged to participate in theatre production activities each semester.
4. Majors must complete a minimum of 60 hours in Theatre, of which 36 are required.
5. A grade of "C" or better is required in all Theatre courses.
6. Majors in this emphasis are encouraged to complete a non-course based internship during the summers after their Sophomore and Junior years.

Freshman	Hours
TH 1350	3
TH 2330	3
TH 1364	3
TH 2111	1
ENG 1310	3
ENG 1320	3
POSI 2310	3
POSI 2320	3
COMM 1310	3
Mathematics	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
US 1100	1
	32
Sophomore	Hours
Select one of the following:	3
TH 3344	
TH 3330	
TH 4334	
TH 3390	3
TH 4390	3
TH 3320	3
TH 3321	3
TH 4330I	3
English Literature	3
HIST 1310	3
HIST 1320	3

Social and Behavioral Science	3
	30
Junior	Hours
TH 4391	3
TH 4392	3
TH Advanced Technical Production Electives <sup>1</sup>	18
Life and Physical Sciences	6
	30
Senior	Hours
TH 4364	3
TH 4393 (taken twice)	6
TH Advanced Technical Production Electives <sup>1</sup>	9
General Electives	7
PHIL 1305 or 1320	3
	28

Total Hours: 120

<sup>1</sup> Non-specified advanced TH classes are chosen in consultation with academic advisor.

## Bachelor of Fine Arts (B.F.A.) Major in Theatre (Teacher Certification in Theatre, Grades EC-12)

**Minimum required: 125 semester hours**

### General Requirements

1. Admission to the B.F.A. in Theatre with Teacher Certification in Theatre is based on grade point average; a 2.75 is required for admission to the program. Students will be expected to maintain high artistic and academic standards. For specific admission requirements and procedures, students should contact the Department of Theatre and Dance before March 15.
2. An all-level (EC-12) teacher certification in the theatre program consists of a minimum of 41 semester hours, with at least 24 hours advanced.
3. All theatre majors are encouraged to participate in theatre production activities each semester.
4. General education core curriculum requirements must be met.
5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
6. Teacher Certification majors must maintain an overall GPA of 2.75, a major GPA of 2.75, and a GPA of 2.75 in all required education courses.

Freshman	Hours
TH 1350	3
TH 1354	3
TH 1364	3
TH 1365	3
TH 2111	1
ENG 1310	3
ENG 1320	3

POSI 2310	3
POSI 2320	3
COMM 1310	3
Mathematics select one of the following:	3
MATH 1315	
MATH 1319	
MATH 2417	
MATH 2471	
US 1100	1
	32
<b>Sophomore</b>	<b>Hours</b>
TH 2330	3
TH 3344	3
TH 3370	3
Theatre Elective	3
English Literature	3
HIST 1310	3
HIST 1320	3
Social and Behavioral Sciences	3
PHIL 1305 or 1320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
	30
<b>Junior</b>	<b>Hours</b>
TH 3320	3
TH 3321	3
TH 4364	3
TH 4310	3
TH 4332	3
TH 4330G	3
Education Requirements	6
Life and Physical Sciences	6
	30
<b>Senior</b>	<b>Hours</b>
TH 4365 <sup>1</sup>	3
TH 4330H <sup>1</sup>	3
TH 4320 <sup>1</sup>	3
TH 3367	3
TH 3343	3
TH 4334	3
Education Requirements	15
	33

Total Hours: 125

<sup>1</sup> During the summer between their junior and senior years, B.F.A. Teacher Certification majors take TH 4365, TH 4330H, and TH 4320.

## Bachelor of Fine Arts (B.F.A.) Major in Musical Theatre

### Minimum required: 123 semester hours

#### General Requirements

- Admission to the B.F.A. in Musical Theatre is highly competitive and based on an audition/interview with the Bachelor of Fine Arts Review Committee. Prospective students audition during their senior year of high school. Interested transfer students must contact the Head of Musical Theatre to see if there are any available slots in their class level; typically, transfer students require more than the usual 4 years to complete their degree. Students in the program are always on probation, with their work and progress continually evaluated. There is a formal review at the end of the sophomore year that determines whether each student may advance to the upper-level training.
- Bachelor of Fine Arts Theatre students choose their career path in consultation with the Head of Musical Theatre.
- General education core curriculum requirements must be met. It is recommended that some of the general education hours be taken over one or more summer sessions.
- A minimum of 36 advanced hours are required.
- All Theatre majors are encouraged to participate in theatre production activities each semester.

Freshman	Hours
TH 1210	2
TH 1211	2
TH 1350	3
TH 1364	3
TH 1365	3
TH 2111	1
MU 1312	3
MU 1314	3
MUSP 1121 (twice)	2
DAN 1180 or 2181	1
DAN 1160 or 2161	1
ENG 1310	3
ENG 1320	3
DAN 2161 or 3162	1
DAN 2181 or 3182	1
US 1100	1
	33
Sophomore	Hours
TH 2210	2
TH 2211	2
TH 3364	3
TH 3322	3
TH 2345	3
DAN 3151	1
DAN 3152	1
DAN 3171	1
DAN 3172	1
TH 3120 (twice)	2
POSI 2310	3



POSI 2320	3
COMM 1310	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	

31

Junior	Hours
TH 2354	3
TH 3320	3
TH 3321	3
TH 3390	3
TH 4390	3
DAN 3171	1
DAN 3172	1
Mathematics	3
HIST 1310	3
HIST 1320	3
Social and Behavioral Sciences	3
TH 3120 (twice)	2
MUSP 1135	1

32

Senior	Hours
TH 4361	3
TH 4364	3
TH 4391	3
TH 4392	3
DAN 3162 or 3182	1
TH 4120 (twice)	2
Life and Physical Sciences	6
PHIL 1305 or 1320	3
English Literature	3

27

Total Hours: 123

## Bachelor of Fine Arts (B.F.A.) Major in Dance (Dance Studies Emphasis)

Minimum required: 120 semester hours

### General Requirements

1. Students in the dance program are expected to be active in the dance club, Orchestis, and to participate in dance concerts as dancers, choreographers, and technicians.
2. Students are expected to gain skills at the advanced level in modern dance plus skills in Ballet, Jazz, Folk, Social, and Square, and to enroll in a dance activity course each semester they are in school.

Freshman	Hours
ENG 1310	3
ENG 1320	3
POSI 2310	3

HIST 1310	3
COMM 1310	3
Mathematics	3
Social and Behavioral Sciences	3
TH 1354 or 1364	3
DAN 1170	1
DAN 1180	1
DAN 1190	1
US 1100	1

28

Sophomore	Hours
PHIL 1305	3
HIST 1320	3
POSI 2320	3
Select one of the following:	3

ART 2313	
DAN 2313	
MU 2313	
TH 2313	
English Literature	3
Life and Physical Sciences	6
DAN 2201	2
DAN 2202	2
DAN 2181	1
DAN 2191	1
Electives	4

31

Junior	Hours
DAN 3330	3
DAN 3332	3
DAN 3367	3
DAN 4366	3
DAN 3366 or 3365	3

DAN 3182	1
DAN 3292	2
TH 1350	3
Select one of the following:	3

TH 2330	
TH 3343	
TH 3344	
TH 4334	
TH 4338	
TH 4345	
Electives	7

31

Senior	Hours
DAN 3292	2
DAN 3345	3
DAN 4330	3
DAN 4350	3
DAN 4368	3
DAN 4369	3

ENG 3304	3
PHIL 4350	3
Electives	7
	<hr/> 30

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Dance (Performance and Choreography Emphasis)

**Minimum required: 120 semester hours**

### General Requirement

1. Admission into the B.F.A. in Dance with an emphasis in Performance and Choreography is based on an audition during the second semester of the sophomore year

Freshman	Hours
ENG 1310	3
ENG 1320	3
POSI 2310	3
HIST 1310	3
COMM 1310	3
Mathematics	3
Social and Behavioral Sciences	3
TH 1354 or 1364	3
DAN 1160	1
DAN 1170	1
DAN 1180	1
DAN 1190	1
US 1100	1
	<hr/> 29

Sophomore	Hours
PHIL 1305 or 1320	3
HIST 1320	3
POSI 2320	3
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
English Literature	3
Life and Physical Sciences	6
DAN 1114	1
DAN 2201	2
DAN 2202	2
DAN 2181	1
DAN 2191	1
DAN 2191	1
Electives	2
	<hr/> 31

Junior	Hours
DAN 3330	3

DAN 3332	3
DAN 3365	3
DAN 3366	3
DAN 3370	3
DAN 3367 or 3340	3
DAN 2210	2
DAN 3182	1
DAN 3292 (twice)	4
TH 1350	3
Electives	3
	<hr/> 31

Senior	Hours
DAN 3162	1
DAN 3182	1
DAN 4292	2
DAN 3345	3
DAN 4330	3
DAN 4350	3
DAN 4368	3
DAN 4369	3
DAN 4470	4
Electives	6
	<hr/> 29

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Dance (Single Field Teacher Certification in Dance, Grades 8-12)

**Minimum required: 120 semester hours**

### General Requirements:

1. Admission to the B.F.A. in Dance with Certification in Dance requires an Overall GPA of 2.75 for admission to the program. Students will be expected to maintain high artistic and academic standards.
2. General Education core curriculum requirements must be met.
3. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
4. Teacher Certification majors must maintain an Overall GPA of 2.75, a Major GPA of 2.75, and a GPA of 2.75 in all required education courses.

Freshman	Hours
ENG 1310	3
ENG 1320	3
POSI 2310	3
HIST 1310	3
Select one of the following:	3
MATH 1315	
MATH 1319	
MATH 2417	
MATH 2471	
COMM 1310	3

Social and Behavioral Sciences	3
PHIL 1305 or 1320	3
DAN 1160	1
DAN 1170	1
DAN 1180	1
DAN 1190	1
US 1100	1
<b>Total</b>	<b>29</b>

<b>Sophomore</b>		<b>Hours</b>
HIST 1320	3	
POSI 2320	3	
English Literature	3	
Life and Physical Sciences	6	
DAN 1114	1	
DAN 2161	1	
DAN 2181	1	
DAN 2191	1	
DAN 2201	2	
DAN 2202	2	
DAN 2365	3	
Select one of the following:	3	
ART 2313		
DAN 2313		
MU 2313		
TH 2313		
Elective	1	
<b>Total</b>	<b>30</b>	

<b>Junior</b>		<b>Hours</b>
CI 3325	3	
CI 4332	3	
DAN 3330	3	
DAN 3332	3	
DAN 3350	3	
DAN 3365	3	
DAN 4350	3	
Select one of the following:	3	
DAN 3366		
DAN 3367		
DAN 3340		
DAN 3162 or 3182	1	
DAN 3292	2	
Electives	4	
<b>Total</b>	<b>31</b>	

<b>Senior</b>		<b>Hours</b>
DAN 4330	3	
DAN 4367	3	
DAN 4368	3	
DAN 4369	3	
DAN 3182	1	
DAN 3292	2	
CI 4343	3	
CI 4370	3	
<b>Total</b>	<b>31</b>	

RDG 3323	3
EDST 4681	6
<b>Total</b>	<b>30</b>

Total Hours: 120

## Bachelor of Fine Arts (B.F.A.) Major in Dance (Two Fields Teacher Certification in Dance, Grades 8-12)

**Minimum required: 130 semester hours**

### General Requirements

1. Consult an academic advisor to help you choose an additional teaching field and for sequencing of courses.
2. A second teaching field is required.
3. It is recommended to take summer Dance courses between the Junior and Senior years.
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

<b>Freshman</b>		<b>Hours</b>
ENG 1310	3	
ENG 1320	3	
POSI 2310	3	
HIST 1310	3	
Select one of the following:	3	
MATH 1315		
MATH 1319		
MATH 2417		
MATH 2471		
COMM 1310	3	
Social and Behavioral Sciences	3	
PHIL 1305 or 1320	3	
DAN 1170	1	
DAN 1180	1	
DAN 1190	1	
US 1100	1	
Second Teaching Field	3	
<b>Total</b>	<b>31</b>	

<b>Sophomore</b>		<b>Hours</b>
Life and Physical Sciences	6	
HIST 1320	3	
POSI 2320	3	
English Literature	3	
DAN 2201	2	
DAN 2202	2	
DAN 2365	3	
DAN 2181	1	
DAN 2191	1	
Select one of the following:	3	
ART 2313		
DAN 2313		
MU 2313		
<b>Total</b>	<b>31</b>	

TH 2313	
Second Teaching Field	6
Select one of the following:	1
DAN 1160	
DAN 2161	
DAN 3162	
	34
<b>Junior</b>	<b>Hours</b>
CI 3325	3
CI 4332	3
DAN 3330	3
DAN 3332	3
DAN 3350	3
DAN 3365	3
DAN 4330	3
DAN 3367 or 4367	3
DAN 3182	1
DAN 3292	2
Second Teaching Field	6
	33
<b>Senior</b>	<b>Hours</b>
DAN 4368	3
DAN 4369	3
DAN 3292	2
CI 4343	3
CI 4370	3
Second Teaching field	9
RDG 3323	3
EDST 4681	6
	32

Total Hours: 130

## Minor in Theatre

A minor in Theatre requires 18 hours, including:

Choose one from the following:	3
TH 1364      Beginning Acting	
TH 2330      Stagecraft and Stage Lighting	
Select 15 additional TH hours, 9 of which must be advanced	15
Total Hours	18

## College of Health Professions

### Dean

Ruth B. Welborn, Ph.D.  
Health Professions Building Room 201  
T: 512.245.3300 F: 512.245.3791  
<http://www.health.txstate.edu/>

### Associate Dean

Marla A. Erbin-Roesemann, Ph.D.

### Associate Dean For Research

Rodney E. Rohde, Ph.D.

### Associate Dean

Barbara L. Sanders, Ph.D.

### Department Chairs/Program Chairs/School Directors

Clinical Laboratory Science—Rodney E. Rohde, Ph.D.

Communication Disorders—Valarie Fleming, Ph.D.

Health Administration—Matthew S. Brooks, Ph.D.

Health Information Management—Jackie A. Moczygemba, M.B.A.

Nursing—Marla A. Erbin-Roesemann, Ph.D.

Physical Therapy—Barbara L. Sanders, Ph.D.

Radiation Therapy—Ronnie G. Lozano, Ph.D.

Respiratory Care—S. Gregg Marshall, Ph.D.

The College of Health Professions prepares students for careers in the healthcare field. Through its professional, technical, clinical and academic programs, the college serves as an advocate for change and technical improvement in the field. The college also serves as a catalyst to expand and improve public perceptions of healthcare.

Undergraduate programs are available in clinical laboratory science, communication disorders, healthcare administration, health information management, nursing, radiation therapy, and respiratory care.

Graduate programs are offered in communication disorders, healthcare administration, health information management, nursing, and physical therapy. The college has a number of cooperating teaching sites and more than 800 affiliations with hospitals and other healthcare facilities.

All programs offered in the College of Health Professions have specific admission requirements in addition to Texas State admission requirements. Most programs also have requirements for student liability insurance and immunizations. Background checks and drug testing may be required.

## Academic Advising Center

Health Professions Building Room 207

T: 512.245.3506 F: 512.245.1615

[www.health.txstate.edu/advising](http://www.health.txstate.edu/advising) (<http://www.health.txstate.edu/advising>)

In the College of Health Professions Undergraduate Academic Advising Center, we are student-centered, supportive, and welcoming to all. We strive to empower students to be successful in their academic and life goals.

We pledge to be accurate, encouraging, sincere, realistic, approachable, and non-judgmental in our interactions to provide guidance and direction to the University community, including students, faculty, staff and members of students' support systems.

The College of Health Professions Academic Advising Center provides academic advising which supports undergraduate students seeking admission to a program offered in the College of Health Professions. The center also prepares degree audits for all undergraduate students in the College of Health Professions, and in coordination with the Dean's Office, verifies graduation.

## Clinical Laboratory Science Program

Health Professions Building Room 350-B

T: 512.245.3500 F: 512.245.7860

[www.txstate.edu/cls](http://www.txstate.edu/cls) (<http://www.txstate.edu/cls>)

The Bachelor of Science in Clinical Laboratory Science with a major in Clinical Laboratory Science prepares students to function as

clinical laboratory scientists (medical laboratory scientists) or medical technologists in a wide variety of settings from physician office laboratories to modern tertiary care hospital laboratories. The clinical laboratory scientist can become an indispensable top-level laboratory worker, a supervisor, a specialist, a researcher, or an educator.

The requirements during the first two years of study include courses in biology, chemistry, and mathematics, along with courses in the humanities and social and behavioral sciences. The junior and senior years combine clinical experiences in the affiliated clinical laboratories with advanced academic study in the CLS disciplines.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Graduates of the program are eligible to take the national certification examination for the Medical Laboratory Scientist (MLS) given by the Board of Certification of the American Society for Clinical Pathology (ASCP).

## Admission Process

Any student entering Texas State may declare Pre-Clinical Laboratory Science as their major. It is recommended that students arrange academic advising at least once prior to making application, and, if possible, arrange to learn about the profession through clinical laboratory tours, personal research, and interviewing a practicing CLS professional. Admission and acceptance to Texas State and declaration as a clinical laboratory science major does not guarantee admission to the program. Admission to the program is competitive and selective. The academic sequence begins during the fall semester of the junior year. Students are selected in the spring semester of their sophomore year. Enrollment is limited by student/faculty ratios and clinical placement availability. The deadline for submission of applications is February 15. A typical cohort size of 20 students will be admitted. Applicants will be notified of their status by April 30th or sooner. The criteria for student selection for the junior class includes scholastic ability, particularly in the sciences, essays, and a personal interview, and not on the basis of gender, race, color, religion, veteran status or condition of disability, or national origin. Due to performance standards of the profession, students must meet specific ADA standards in accordance with physical and emotional requirements of the academic program to qualify for admission.

## General Admission Requirements

1. Admission to Texas State University. University application deadlines are different than the CLS Program deadline. Potential applicants are encouraged to complete the University process early (six to eight weeks prior to the CLS application deadline of February 15th) to facilitate review of transcripts during the CLS Program application process.
2. A minimum overall GPA and science GPA of 2.50; however, an overall GPA and a science GPA of 3.0 is recommended in order to be competitive in the application process.
3. Science courses require a minimum grade of "C" or higher.
4. Students may only have a maximum of 12 remaining prerequisite hours, with only eight of these credit hours in prerequisite science courses. (We strongly recommend these 8 hours be in microbiology and fundamentals of organic chemistry.) Students are encouraged to complete all prerequisite courses prior to admission.
5. Completion of the CLS application packet for admission by the deadline (February 15th).
6. Successful interview of selected candidate with admission committee.

7. Other requirements as necessary by clinical placements (e.g. immunization, background check, and drug testing).

## Program Progression

Successful program progression requires students to complete each semester in a lock-step sequence with a grade of "C" or higher in all major courses. Each course is offered only once each academic year; therefore, progress in the program is affected should a student fall out of the sequence due to failure to successfully complete a course. A student who falls out of sequence (whether due to illness, course failure, or other reasons) will be delayed one year to repeat the course. According to CLS program policy, students with a grade of less than a "C" in a CLS course will be stepped out of the program and individuals must reapply to the program the following year. To be considered for program readmission, all original program admission criteria and an approved schedule for retaking courses must be met. In addition, a student may repeat a CLS course only once. If the student does not earn a grade of at least "C" upon repeating the course, the student cannot continue in the program. **All non-CLS coursework must be completed prior to the senior year, 2nd semester (spring), due to students beginning off-campus clinical rotations.**

## Graduation

To graduate with a Bachelor of Science in Clinical Laboratory Science, students must successfully complete all CLS courses with a "C" or higher. **Requirements for BSCLS completion and graduation include a Texas State GPA of 2.0 with a CLS major GPA of 2.25.** During the second semester (spring) and final semester (summer) of the senior year, students are required to successfully complete five clinical laboratory rotations/experiences in CLS Clinical Practice courses. These courses require that the students spend clinical time in other facilities, primarily hospitals and reference laboratories, away from campus. Students must furnish their own transportation, and if necessary, housing. Because of the time and distances involved, typically no courses other than those listed in the CLS Program can be taken in the final two semesters of the senior year.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician or licensed healthcare provider, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

## Background Check and Drug Screening

As a condition for placement in professional practice sites, students will be required to have a background check and drug screening and meet other requirements set by individual sites. Information on the drug screening process will be provided by the CLS Program.

## Clinical Placement (rotation) Requirements

The Clinical Laboratory Science (CLS) Program at Texas State provides clinical placements for all CLS students entering the clinical year (senior year / 2<sup>nd</sup> year of post baccalaureate) in good academic standing. Clinical placements are carefully and methodically assigned while taking into account transportation issues, types of clinical affiliates, and student characteristics. In the event a clinical affiliate is unable to fulfill their prior



obligation, alternative clinical rotations will be sought at other affiliate institutions. In the very unlikely event alternative clinical rotations are unable to be secured; affected students will be reassigned to the first available rotation site. The next available clinical rotation will occur as soon as possible but no later than one year from the time the rotation was cancelled. If the clinical rotation cancellation occurs after clinical rotations have commenced, the affected student will be placed first in the queue to receive the first available clinical rotation slot that will occur no later than one year after the cancellation. If the clinical rotation cancellation occurs prior to the start of clinical rotations, affected students will be selected based on GPA calculated from performance in the CLS courses. Students with the lowest GPAs will be required to relinquish their clinical rotation slots which will delay clinical rotations.

## Bachelor of Science in Clinical Laboratory Science (B.S.C.L.S.)

- Major in Clinical Laboratory Science (p. 310)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Clinical Laboratory Science (CLS)

### CLS 3305. Introduction to Clinical Laboratory Techniques.

Clinical Laboratory Science students will be introduced to techniques, procedures, and instrumentation commonly used in clinical laboratories. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

### CLS 3323. Clinical Microscopy and Analysis of Body Fluids.

Study of body fluids present in the various anatomical compartments of the body as they differ in health and disease. Physical and chemical tests, and microscopic examination of select body fluids are performed

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CLS 3326. Medical Parasitology.

This course includes lecture and laboratory instruction in medically important parasites producing disease in humans with emphasis on epidemiology, life cycles, identifying characteristics, and pathology of these parasites

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CLS 3410. Clinical Chemistry I.

Designed to acquaint the clinical laboratory science student with some of the concepts, techniques, procedures, and instrumentation used in clinical chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CLS 3412. Hematology/Coagulation I.

Qualitative and quantitative evaluation of formed elements of the blood and studies in coagulation abnormalities

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CLS 3424. Clinical Immunology.

Principles of immune response and underlying immunologic procedures of diagnostic value are discussed. Lectures and laboratory emphasize detection, identification, nature of antigens and antibodies, and the antigen-antibody reactions encountered

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CLS 4225. Laboratory Management and Supervision.

Lectures and discussions of general principles of management and supervision of the clinical laboratory and its personnel. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### CLS 4318. Hematology II.

In-depth study of theoretical and practical aspects of clinical hematology and hemostasis with emphasis on principles, methodology, problems encountered, and clinical applications

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CLS 4321. Directed Study in Clinical Laboratory Science.

An indepth study of a narrow range of topics or a related problem in the clinical laboratory sciences. Topics to be announced; may be repeated for credit when topics vary

**3 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Credit/No Credit

### CLS 4333. Bridge to Clinical Practice.

Study of professional and technical requirements for clinical laboratory science students and their role as part of the healthcare team. Students will demonstrate entry-level technical competency. The student's knowledge of all course material presented from the beginning of the CLS program through the spring semester will be evaluated. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

### CLS 4340. Clinical Microbiology II.

Study of medically important fungi, viruses, chlamydiae, rickettsiae, and advanced topics in clinical microbiology. Automated identification of microorganisms, database management, and epidemiologic techniques will be discussed

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4341. Molecular Diagnostics.**

This course consists of an introduction to the principles, methodologies and applications of molecular diagnostic procedures used in clinical laboratories. Emphasis is placed on the procedures used in the identification of infectious agents that cause human disease, in the diagnosis of inherited diseases, and the diagnosis of cancer  
**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CLS 4361. Research Methods in Clinical Laboratory Science.**

Directed independent research covering the principles of research and development of clinical laboratory methodology. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**CLS 4364. CLS Clinical Practice II.**

This course offers a continuation of CLS Clinical Practice I which includes structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**CLS 4370. Clinical Chemistry II.**

A study of the theoretical and practical aspects of clinical chemistry. Manual and automated laboratory procedures for quantitative analysis of various body fluids

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CLS 4440. Clinical Microbiology I.**

Study of pathogenic and nonpathogenic bacteria, fungi, and viruses with special emphasis on methods of isolation from body fluids, cultural and differential biochemical characteristics of body pathogens

**4 Credit Hours. 3 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CLS 4460. Immunohematology.**

Study of theoretical and practical consideration of major blood groups with emphasis on grouping and typing, antibody detection and identification, compatibility testing and component therapy in blood transfusion service

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CLS 4463. CLS Clinical Practice I.**

Structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

# Bachelor of Science in Clinical Laboratory Science (B.S.C.L.S.) Major in Clinical Laboratory Science

**Minimum required: 120 semester hours**

## General Requirement

- Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

				Freshman
First Semester	Hours	Second Semester	Hours	
BIO 1330	3	BIO 1331	3	
BIO 1130	1	BIO 1131	1	
CHEM 1341	3	CHEM 1342	3	
CHEM 1141	1	CHEM 1142	1	
ENG 1310	3	ENG 1320	3	
POSI 2310	3	Select one of the following:	3	
US 1100 <sup>1</sup>	1	MATH 1315		
		MATH 13		
		MATH 1329		
		MATH 23		
		MATH 2331		
		MATH 24		
		MATH 2471		
15		14		
				Sophomore
First Semester	Hours	Second Semester	Hours	
BIO 2440 or 2400	4	HIST 1320	3	
COMM 131C	3	POSI 2320	3	
HIST 1310	3	ENG Literature <sup>2</sup>	3	
Social and Behavioral Sciences <sup>2</sup>	3	PHIL 1305 or 1320	3	
		Select one of the following:	3	
		ART 2313		
		DAN 2313		
		MU 2313		
		TH 2313		
13		15		
				Junior
First Semester	Hours	Second Semester	Hours	
CLS 3305	3	CLS 3323	3	
CLS 3410	4	CLS 3424	4	

CLS 3326	3	CLS 3412	4		
Select one of the following:	4	Select one of the following:	3		
CHEM 2330 & CHEM 2130		HP 3302			
CHEM 23 & CHEM 21		SOCI 330			
CHEM 2342 & CHEM 2142		MATH 2328			
		QMST 23			
		CJ 3347			
		PSY 2301			
	14		14		
					<b>Senior Hours</b>
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Summer</b>	<b>Hours</b>
CLS 4333	3	CLS 4340	3	CLS 4225	2
CLS 4318	3	CLS 4341	3	CLS 4361	3
CLS 4440	4	CLS 4370	3	CLS 4364	3
CLS 4460	4	CLS 4463	4		
	14		13		8

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have a minimum of 120 hours to graduate. See the College Advising Center.

<sup>2</sup> See Academic Services section of the catalog for course options that satisfy Literature and Social and Behavioral Sciences components.

## Department of Communication Disorders

Health Professions Building Room 150B

T: 512.245.2330 F: 512.245.2029

[www.health.txstate.edu/CDIS](http://www.health.txstate.edu/CDIS) (<http://www.health.txstate.edu/CDIS>)

The Department of Communication Disorders provides undergraduate students with the academic background to successfully enter a graduate program in speech-language pathology or audiology. The undergraduate curriculum provides knowledge in normal and disordered speech, language, swallowing and hearing processes. Coursework in the major is supported by additional courses in psychology, counseling, biology, physics, and statistics.

The Department prepares students at the graduate level to diagnose and manage speech-language problems in children and adults. A master's degree is required for state licensure and national certification. The graduate program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology.

### Admission Process

Students are initially considered Pre-professional Communication Disorders majors. Once the student is accepted into the Junior/Senior sequence, the major becomes Communication Disorders.

Admission to the CDIS Junior/Senior-level courses is competitive and selective. Enrollment is limited by student/faculty ratios in both academic

and clinical components of the program. To be considered for admission to the Junior/Senior-level courses, the following are required:

1. Students must be in overall good standing to apply.
2. An overall GPA of 3.0
3. Completion of a minimum of 50 hours of coursework from the freshman and sophomore courses listed on the CDIS Degree Plan. The 50 hours must be completed by the end of the Summer 1 session in the same calendar year in which the student wishes to begin the Junior/Senior sequence.
4. The following courses must be taken in the 50 hours:

PHYS 1310	Elementary Physics	3
CDIS 1331	Introduction to Communication Disorders	3
BIO 2430	Human Physiology and Anatomy	4
HP 3302	Biostatistics (or an equivalent)	3
PSY 3300	Lifespan Development	3
5. These classes must be completed by the end of the Summer 1 session in the same calendar year in which the student wishes to begin the Junior/Senior sequence.
6. A minimum grade of C in support and major classes listed as part of the freshman/sophomore years on the Degree Plan:

HIM 2360	Medical Terminology	3
BIO 2430	Human Physiology and Anatomy	4
HP 3302	Biostatistics (or an equivalent)	3
PSY 3300	Lifespan Development	3
CDIS 1331	Introduction to Communication Disorders	3

Students are ranked by their GPA in the five required classes and admittance in the Junior/Senior year is based on this ranking. Preference for admission is given to students who have not repeated any of the five courses.

CDIS 1331	Introduction to Communication Disorders	3
HP 3302	Biostatistics (or an equivalent)	3
PHYS 1310	Elementary Physics	3
PSY 3300	Lifespan Development	3
BIO 2430	Human Physiology and Anatomy	4

The application for admission is submitted to the department by May 15th. Admission decisions are made after the end of Summer 1. All students will be notified by letter of the CDIS Undergraduate Admission Committee's decisions. Student selection is made on academic performance and not on the basis of race, color, religion, gender, age, or national origin.

### CDIS Progression and Repeat Course Policy

1. The Junior/Senior-level courses (Bachelors of Science Degree in Communication Disorders) academic sequence begins during the fall semester only.
2. Courses must be taken in the sequence identified in the catalog.
3. After admission into the Junior/Senior sequence, failure to enroll in all of the recommended CDIS courses for that semester as identified by an advisor in conjunction with the Degree Plan will delay graduation at least a year.

4. CDIS students must receive a grade of "C" or higher in each CDIS class. If a grade below "C" in a junior- or senior-level CDIS courses is earned, the student will not be allowed to continue as a Communication Disorders major and must change majors to something other than CDIS. This change will be done in conjunction with the student's CDIS academic advisor and the College of Health Professions' Advising Center.

## Graduation

1. Have a GPA of 2.75 in the major in order to graduate.
2. If a student has not earned the minimum major requirement of 2.75 for graduation and earned "C" or higher in all CDIS courses, the student will be allowed to re-take CDIS courses only until the student achieves the GPA of 2.75. CDIS students are NOT permitted to re-take CDIS courses if they have earned C's or higher in the courses.

## Bachelor of Science in Communication Disorders (B.S.C.D.)

- Major in Communication Disorders (p. 313)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Communication Disorders (CDIS)

### CDIS 1331. Introduction to Communication Disorders.

Study of speech, hearing, and language development and its disorders; descriptions of communicative disorders and their etiologies for the speech-language pathologist, health professional, and classroom teacher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CDIS 3312. Neuroanatomy for Communication Disorders.

This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language and hearing are the main focus of this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CDIS 3325. Anatomy and Physiology of the Speech Production System.

Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CDIS 3459. Phonemics and Phonetics.

Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CDIS 3462. Remediation of Articulatory and Phonological Disorders.

This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. Prerequisites: CDIS 3325 and CDIS 3459. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

### CDIS 3469. Introduction to Hearing Science.

Study of acoustics, auditory physiology and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem solving and weekly assignments

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CDIS 3475. Speech Science.

Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. Prerequisites: CDIS 3325 and CDIS 3459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

### CDIS 4301. Advanced Independent Study.

In-depth study of selected topics in Communication Disorders for the exceptionally motivated student. Work done on an independent basis with faculty member and only with prior departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### CDIS 4317. Service Delivery in Communication Disorders.

Provides a foundation of clinical management to prepare CDIS students to work in a variety of settings. Emphasis will be placed on techniques of goal and objective sequencing, report writing, evaluation of services, ethics, and interdisciplinary collaboration. Prerequisites: CDIS 3459, CDIS 3462, CDIS 4330, CDIS 4466 or CDIS 4350 . (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### CDIS 4330. Speech and Language Development.

Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycho-linguistics, psychology, and communication are examined for children in various stages of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CDIS 4340. Augmentative Communication Systems.

Designed to review methods of non-oral communication as applied to hospital, rehabilitation, and school settings. Use of electronic communication systems emphasized. Prerequisites or co-requisites: CDIS 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 4344. Clinical Practicum in Communication Disorders.**

Supervised clinical practicum in speech-language pathology. Must be taken each semester student participates in any supervised clinical practicum in speech-language pathology. Prerequisites: CDIS 1331, CDIS 3459, CDIS 3462 or CDIS 4466, and CDIS 4330. (Concurrent registration in CDIS 4330 acceptable)

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required  
**Grade Mode:** Credit/No Credit

**CDIS 4350. Survey of Neurogenic Communication Disorders.**

This course provides an introduction to acquired speech, language, cognitive and swallowing disorders resulting from brain injury. Basic neuroanatomy and physiology are reviewed, followed by discussion of the etiology, diagnosis, treatment, and prognosis of these disorders. Emphasis is placed on aphasia, dysarthria, apraxia of speech, right hemisphere syndrome, traumatic brain injury, dementia, and dysphagia. Prerequisite: CDIS 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 4370. Aural Rehabilitation.**

Principles and procedures in the habilitation and rehabilitation of hearing impaired children and adults. Prerequisites: CDIS 4420. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**CDIS 4420. Introduction to Audiology.**

Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal and pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of audiology and provision of audiological service to special populations. Prerequisite: CDIS 3469

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CDIS 4466. Clinical Management of Language Disorders.**

Study of principles and procedures for the identification, description, assessment and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples will be emphasized. Prerequisite: CDIS 4330

**4 Credit Hours. 4 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required  
**Grade Mode:** Standard Letter

## Bachelor of Science in Communication Disorders (B.S.C.D.) Major in Communication Disorders

**Minimum required: 120 semester hours**

**General Requirement**

1. Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

		<b>Freshman</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 1310	3	ENG 1320	3
CDIS 1331	3	Select one of the following:	4
HIST 1310	3	BIO 1421	
Select one of the following:	3	BIO 1330 & BIO 1130	
MATH 1315		BIO 1331 & BIO 1131	
MATH 1319		HIST 1320	3
MATH 1329		PHIL 1305 or 1320	3
MATH 2417		COMM 1310	3
MATH 2471			
PSY 1300	3		
US 1100 <sup>1</sup>	1		
	16		16

		<b>Sophomore</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
BIO 2430	4	Select one of the following:	3
Select one of the following	3	ART 2313	
English Literature courses:			
ENG 2310		DAN 2313	
ENG 2320		MU 2313	
ENG 2330		TH 2313	
ENG 2340		Select one of the following:	3
ENG 2359		PHYS 1310	
ENG 2360		PHYS 1320	
POSI 2310	3	PHYS 1315	
HIM 2360	3	PHYS 1325	
PSY 3300	3	Select one of the following:	3
		HP 3302	
		PSY 2301	
		SOCI 3307	
		CJ 3347	
		POSI 2320	3
		Support Course	3
	16		15

		<b>Junior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CDIS 3312	3	CDIS 3462	4
CDIS 3325	3	CDIS 3469	4
CDIS 3459	4	CDIS 3475	4
ENG 3303	3	Support Course	3
	13		15
		<b>Senior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CDIS 4330	3	CDIS 4317	3
CDIS 4340	3	CDIS 4370	3
CDIS 4420	4	CDIS 4466	4
CDIS 4350	3	CDIS 4344 <sup>2</sup>	3



Support Course	3
13	16

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have a minimum of 120 hours to graduate. See the College Advising Center.

<sup>2</sup> CDIS 4344 is taken either in the first or second semesters of the senior year. The department assigns which semester it is taken.

### Support Courses

ANTH 3302	Introduction to Linguistic Anthropology	3
ANTH 3325	Medical Anthropology	3
COUN 3320	Introduction to Counseling and Psychotherapy	3
ENG 3319	The Development of English	3
FCD 3355	Family Relationships	3
HA 3309	Ethics in the Health Professions	3
PSY 3315	Abnormal Psychology	3
PSY 3316	Personality Psychology	3
PSY 3350	Cognitive Behavioral Therapies	3
SOCI 3383	Aging and Society	3

## School of Health Administration

Health Professions Building Room 250

T: 512.245.3494 F: 512.245.8712

[www.health.txstate.edu/HA](http://www.health.txstate.edu/HA) (<http://www.health.txstate.edu/HA>)

The Healthcare Administration major integrates healthcare management theory and practice, and prepares graduates to assume entry to mid-level management positions in a variety of healthcare settings. These settings include health maintenance organizations (HMO's), physician group practice, hospitals, insurance companies, clinics, and medical offices. Healthcare administrators manage employees, prepare and maintain budgets, procure resources and perform other administrative functions so that the clinical professionals can provide their services. The major is certified by the Association of University Programs in Health Administration.

### Admission

Any student in Texas State may declare Pre-Healthcare Administration as the major. To declare Pre-Healthcare Administration as a major, contact the School Administrative Assistant and schedule an appointment with the B.H.A. Director.

Admission to the Healthcare Administration program is competitive with a limited number of applicants accepted to each class. In addition to the minimum criteria for program consideration, applicants to the B.H.A. program are required to have an interview with the B.H.A. Program Director. B.H.A. applicants meeting the minimum criteria listed below will be considered for program admission:

- Successful completion of all general education core and support courses with a "C" or better in the following courses:

MATH 1315	College Algebra (or an equivalent)	3
ECO 2301	Principles of Economics	3
or ECO 2314	Principles of Microeconomics	
HP 3325	Healthcare Statistics (or an equivalent)	3
HA 3308	Healthcare Organization	3

- Texas State GPA of 2.75 or higher.
- Completion of the PUG (punctuation, usage, and grammar) test with a passing score (70% or higher). Applicants are allowed to take the PUG a maximum of three times.
- Application deadlines and items for application packet are posted on School webpage.

### Progression and Repeat Course Policy

B.H.A. majors are required to take courses in a prescribed sequence and are required to successfully complete with a grade of "C" or better.

- All 3000-level courses before enrolling in any 4000-level courses.
- All 4000-level courses before enrolling in field placement. In addition, all B.H.A. majors are required to pass an EXIT exam administered in HA 4141 before enrolling in field placement.

B.H.A. majors are required to make a "C" or better in all HA courses and are allowed to repeat each HA course once, and only once, to improve their grade. In the event that B.H.A. majors do not make a "C" or better when repeating a course, they will be suspended from the major. B.H.A. majors suspended from the B.H.A. program have a right of appeal and should contact the B.H.A. Director.

### Graduation

To graduate with a B.H.A. degree, a student must:

1. Complete all required courses.
2. Have a grade of "C" or better in each HA course.
3. Have a 2.00 Texas State GPA or better and 2.25 HA GPA or better.
4. Have met University residency requirements.
5. Pass an EXIT exam administered in HA 4141.

### Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician or licensed healthcare provider, and must take certain immunizations before the student can be placed in a clinical or residency assignment. Information on these requirements and forms to be supplied may be obtained through the school office.

**NOTE:** All students are required to complete a residency for the BHA. A background check is required prior to 1st semester of HA classes and again during the 3<sup>rd</sup> HA semester (during enrollment in HA 4141) prior to beginning the residency. Issues with the background check could impact residency placement and ability for employment in the healthcare industry.

### Bachelor of Healthcare Administration (B.H.A.)

- Major in Healthcare Administration (p. 316)

### Minor

- Healthcare Administration (p. 317)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this school include: HA (p. 315), HP (p. 316)**

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## **Courses in Healthcare Administration (HA)**

### **HA 3308. Healthcare Organization.**

Overview of the healthcare system and the role hospitals have played and continue to play in the future. Analysis of organizational structure of a hospital and other healthcare agencies, administrative and management elements necessary for policy determination, decision making, and control to achieve institutional goals and objectives

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3309. Ethics in the Health Professions.**

This course introduces the student to a sound foundation in well-established ethical theories and a familiarity with terms, concepts and issues in ethics as applied to the health professions. Also provides practical methods for proceeding from considered reflection to informed action in solving ethical problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3311. Independent Study in Healthcare Administration.**

An in-depth study of a single topic or problem confronting the healthcare industry. This course affords the student an opportunity to focus on a topic/problem or group of related problems impacting healthcare managers. This course may be repeated for credit with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### **HA 3315. Healthcare Administration History, Culture, and Language.**

An introduction to the historical and cultural development of modern healthcare administration in contemporary American society. Special attention is given to the mores of health services delivery including critiques and use of professional behavior and language

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3324. Supervisory Management for Healthcare Managers.**

Introduction to the following functions of supervisory management: planning, organizing, staffing, influencing, and controlling; as well as the connective processes of decisionmaking, coordinating, and communicating in healthcare organizations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### **HA 3329. Human Resources in Healthcare Management.**

Human resource management as applicable to the healthcare field. Course will cover human resource planning, staffing, job requirements, job descriptions, sources of labor supply, training and education programs, salary administration, employee communications, legal considerations, union-management relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3340. Management of Health Information Systems.**

Provides an introduction to information systems for healthcare facilities and agencies. Covers determining what information is needed by whom; designing information flows, procurement of computer/telecommunication resources, assuring information security, and continuing management of information systems supporting healthcare delivery

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3341. Training and Professional Development in Healthcare.**

This course examines the training and professional development processes as applied to the healthcare industry. Emphasis is placed on staff developments, need analysis, task analysis, development of training and continuing education programs for healthcare personnel. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### **HA 3344. Patient Care Management & Quality Improvement in Health Care Integrated Delivery Systems.**

This course is an introduction of integrated delivery systems and their operations. It includes an examination of patient care management and the patient experience. A framework for understanding healthcare quality efforts is also an integral part of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3347. Essentials of Healthcare Law.**

This course includes a review of the laws pertaining to healthcare institutions, physicians, and other healthcare workers who contribute to patient care. Tort and contract law are emphasized. The course addresses policy issues and ethics through topics like patient rights, reproduction, and end of life decisions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3375. Principles of Accounting for Healthcare Managers.**

Provides an introduction to accounting useful in healthcare facilities and agencies, and demonstrates the application of accounting principles and techniques in the healthcare field. Prerequisites: ECO 2301 or ECO 2314, and HP 3325 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 3376. Financial Management for Healthcare Managers.**

A concentration in the fundamentals of healthcare financial management including the financial organization of nonprofit facilities, sources of operating revenue, management of working capital, and the allocation, control and analysis of resources. Prerequisites: ECO 2301 or 2314, and HA 3375 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **HA 4121. Problems in Healthcare Administration.**

In-depth study of a singular problem considered to be of immediate concern to the health care industry. Special emphasis is placed on problems unique to managers in the field of health administration. May be repeated with permission of department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HA 4141. Healthcare Comprehensive Exam and Review.**

A course in which each of the respective faculty will review their portion of the comprehensive examination that all HA majors are required to successfully pass during their final semester of study. The comprehensive exam will be administered at the conclusion of the course

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4221. Problems in Healthcare Administration.**

In-depth study of a narrow range of topics considered to be of immediate concern to the health care industry. Special emphasis on problems unique to managers in the field of health administration. May be repeated with permission of department chair

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HA 4305. Healthcare Services Marketing.**

The course applies the principles of services marketing to healthcare organizations. The course will present tools to identify and close the gaps that exist between customer expectation of services and the services provided and to ensure quality of health care

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4315. Health Services Problem Solving and Decision Making.**

An introduction to methodologies used to seek solutions to health administration problems which affect technical and professional personnel. Designed to place emphasis on techniques most directly applicable to models of administration and management decision making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HA 4318. Employment Law in Healthcare Management.**

This course examines the legal aspects of healthcare human resource management. Each of the major federal and state enactments impacting human resource management will be studied in depth. Prerequisite: HA 3329

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4320. Seminar in Healthcare Administration.**

Current trends and problems in health administration affecting health administration technical and professional personnel. Designed to place emphasis in selected areas of administration and management. Research paper and presentation is required of each student. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HA 4325. Healthcare Strategic Management.**

This capstone class integrates accounting, finance, marketing, MIS, and organizational behavior in the creation of sustainable competitive advantage. health care case studies will be used to illustrate key concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4440. Practicum Internship A.**

Students with specialization in management participate in a health services based practicum. Experiences in providing opportunities for observation, participation, and practical application of administrative or management skills in the institutional setting are required. Must have a 2.25 major GPA and have completed all junior year major courses

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4441. Practicum Internship B.**

Studies tailored to particular interests and needs of individual students. A variety of experiences may be used to enrich the program for students with special needs or demonstrated competencies. This course is taken in the final semester of study

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4848. Healthcare Administrative Residency.**

Designed for students who have limited or no previous background in healthcare management/administration. Includes rotation through selected major departments, culminating in a major project. This course is taken in the final semester of study

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Courses in Health Professions (HP)

**HP 3302. Biostatistics.**

The course introduces major statistical concepts and procedures as applied to clinical science students with an emphasis on inferential statistics. Topics include: descriptive statistics, hypothesis testing, comparison statistics, relationship statistics, association statistics, and beginning epidemiological ratios. Students are introduced to major statistical packages. Prerequisite: MATH 1315 or MATH 1319

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**HP 3325. Healthcare Statistics.**

The course introduces major statistical concepts and procedures as applied to healthcare administration students with an emphasis on descriptive statistics. Topics include: healthcare statistical terminology, descriptive statistics, hypothesis testing, comparison statistics, relationship statistics, and association statistics. Prerequisite: MATH 1315 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Bachelor of Healthcare Administration (B.H.A.) Major in Healthcare Administration

**Minimum required: 120 semester hours**  
**General Requirement**

1. Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

Freshman			
First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
COMM 131C	3	HIST 1320	3
HIST 1310	3	Life and Physical Sciences <sup>1</sup>	3
Select one of the following:	3	Social and Behavioral Sciences <sup>1</sup>	3
MATH 1315		PHIL 1305 or 1320	3
MATH 13			
MATH 1329			
MATH 24			
MATH 2471			
Life and Physical Sciences <sup>1</sup>	3		
US 1100 <sup>2</sup>	1		
	16		15

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
English Literature <sup>1</sup>	3	POSI 2320	3	Elective	5
Select one of the following:	3	ECO 2301 or 2314	3		
ART 2313		Select one of the following:	3		
DAN 231;		HP 3325			
MU 2313		HP 3302			
TH 2313		MATH 23			
POSI 2310	3	CJ 3347			
CIS 1323 or CS 1308	3	PSY 2301			
Elective	3	SOCI 3307			
		HA 3308	3		
		Elective	3		
	15		15		5

Junior			
First Semester	Hours	Second Semester	Hours
HA 3309	3	HA 3341	3
HA 3324	3	HA 3340	3
HA 3315	3	HA 3376	3
HA 3375	3	HA 3344	3
HA 3329	3	HA 3347	3
	15		15

Senior			
First Semester	Hours	Second Semester	Hours
HA 4305	3	HA 4848	8
HA 4315	3		
HA 4318	3		
HA 4320	3		
HA 4325	3		
HA 4141	1		
	16		8

Total Hours: 120

<sup>1</sup> See Academic Services section of the catalog for course options that satisfy Literature, Life and Physical Sciences, and Social and Behavioral Sciences components.

<sup>2</sup> If US 1100 is waived, the student must have a minimum of 120 hours to graduate. See the College Advising Center.

## Minor in Healthcare Administration

The Healthcare Administration minor is designed to complement the student's major with the objective of providing an introductory curriculum, which can assist the student in gaining employment in healthcare and healthcare related career fields. This objective can be achieved by: building on general education core foundations; offering scheduling flexibility for non-traditional students; introducing students to health services management functions through the mastery of certain skills including communication, decision-making, and coordination, unique to healthcare administration; and preparing students for graduate study. The minor requires 18 hours including:

### Required Courses

HA 3308	Healthcare Organization <sup>1</sup>	3
HA 3324	Supervisory Management for Healthcare Managers	3
HA 3347	Essentials of Healthcare Law	3

### Electives

Select nine credits from the following:			9
HA 3309	Ethics in the Health Professions		
HA 3315	Healthcare Administration History, Culture, and Language		
HA 3329	Human Resources in Healthcare Management		
HA 3340	Management of Health Information Systems		
HA 3341	Training and Professional Development in Healthcare		
HA 3344	Patient Care Management & Quality Improvement in Health Care Integrated Delivery Systems		
HA 3375	Principles of Accounting for Healthcare Managers		
HA 3376	Financial Management for Healthcare Managers		

Total Hours 18

<sup>1</sup> HA 3308 must be taken prior or concurrent with other HA courses.

## Department of Health Information Management

Health Professions Building Room 302

T: 512.245.8242 F: 512.245.8258  
[www.health.txstate.edu/HIM](http://www.health.txstate.edu/HIM) (<http://www.health.txstate.edu/HIM>)

The Health Information Management major prepares students to work in the health information management profession which focuses on health care data and the management of health care information resources. The profession addresses the nature, structure, and translation of data into usable forms of information including the electronic health record for the advancement of health and health care of individuals and populations.

Health information management professionals collect, integrate, and analyze primary and secondary health care data, disseminate information, and manage information resources related to the research, planning, provision, and evaluation of healthcare services. HIM professionals are an integral part of the planning, implementing and utilization of electronic health record systems.

Health Information Management professionals work in multiple settings throughout the healthcare industry. These include the continuum of care delivery organizations; hospitals, multispecialty clinics and physician practices, long-term care, mental health, and other ambulatory care settings. The profession has recently seen significant expansion in nonpatient care settings, with careers in managed care and insurance companies, electronic health record vendors, consulting services, government agencies, education, and pharmaceutical companies.

The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education. Upon completion of the degree, graduates of the program are eligible to sit for the RHIA (Registered Health Information Administrator) examination offered by the American Health Information Management Association.

The B.S.H.I.M. is offered in two formats—the traditional campus-based program and an on-line program.

- The traditional campus-based program is a two plus two program with completion of general education core curriculum and program prerequisite coursework during the first two years. Following application and acceptance into the program, the final two years consist of the professional coursework reinforced with a professional practice experience assignment in a hospitals or health care related organization. Application deadline is March 1.
- The on-line program is offered to traditional students who have completed the general education core curriculum and program prerequisite coursework and those who have already completed an associate degree in health information or other degree. The courses in this format are offered via web-based instruction, independent study, and a professional practice experience. Application deadline is March 1.

## Admission

Any student at Texas State University may declare Pre-Health Information Management as their major. To declare Pre-HIM as a major, contact the Department of Health Information Management to schedule an interview with the Department Chair. It is strongly recommended that students present themselves for academic advising with a HIM program advisor as soon as health information management has been selected as a major.

Admission Process for acceptance to the professional phase of the program to begin the 3000 and 4000 level coursework, students must:

1. Have completed the majority of the Core and other prerequisite coursework;

2. Have a minimum overall GPA of 2.50;
3. Be eligible for admission to Texas State. (University application deadlines are different than the HIM Program deadline. Potential program applicants are encouraged to complete the University process early to facilitate review of transcripts during the HIM Program application process.);
4. Submit HIM Program application by March 1 for consideration to begin the HIM coursework in the fall semester; and
5. Interview with the HIM Program Admissions Committee.

Advanced placement in the major coursework due to previous health information or related coursework and/or work experience will require a review of the student's credentials and transcripts. Due to course sequencing and the scheduling of the professional practice experience assignment, students who drop out of the program for one or more semesters will be required to reapply for admission and be re-interviewed by the admissions committee.

## Progression

B.S.H.I.M. courses are to be taken in a published sequence. The HIM courses are offered in a lock-step sequence. Most courses are offered only once each academic year; therefore, progress in the program may be delayed if a student falls out of sequence due to failure to successfully complete the HIM courses with the required "C" or higher. Due to course sequencing and the scheduling of the professional practice experience assignment, students who drop out of the program for one or more semesters will be required to reapply for admission and be re-interviewed by the admissions committee for consideration to be allowed to continue in the program.

## Graduation

To graduate with a Bachelor of Science in Health Information Management, students must successfully complete all HIM courses with a "C" or higher. Graduating students must have attained a 2.0 or higher Texas State University GPA with a minimum of 2.25 GPA in the HIM major courses.

During the second semester of the senior year students are required to take a five-week professional practice experience course. This course requires that the students spend a minimum of five weeks in other institutions (hospitals or healthcare related organizations) away from campus. Students who have already completed an associate degree in health information or another bachelor's degree or who have significant healthcare experience are required to complete a two-week professional practice experience course. Students must furnish their own transportation and housing. Due to the time and distances involved, no courses other than those listed can be taken in the final semester of the senior year.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report form completed by a physician or licensed healthcare provider, providing evidence of specific immunizations before the student can be placed in a professional practice experience assignment. Information on these requirements and forms may be obtained through the HIM Department.

## Background Checks and Drug Screening

As a condition for placement in some professional practice experience sites, students may be required to have a background check and/or drug



screening and/or meet other specific requirements as set by individual sites. Information on these requirements may be obtained through the HIM Department.

## Bachelor of Science in Health Information Management (B.S.H.I.M.)

- Major in Health Information Management (p. 321)

### Minor

- Health Information Management (p. 321)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Health Information Management (HIM)

### HIM 2345. The Language of Healthcare: Spanish.

An introduction of the practical language used in clinical settings to facilitate interaction with Spanish-speaking patients and healthcare professionals. Special emphasis is placed on the use of meaningful medical vocabulary for various healthcare professionals who work with Spanish-speaking patients and their families. Prerequisite: Two semesters of Spanish

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 2360. Medical Terminology.

Recognizing and understanding the vocabulary of the health care professions. Emphasis on medical prefixes, suffixes, and word roots as used in oral and written communications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3301. Principles of Health Information Management.

Exploration of the expanding role of the HIM professional. Emphasis will be on the organizational structure and delivery of healthcare in hospitals and other healthcare agencies and the associated roles of HIM professionals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3310. Fundamentals of Health Information Systems.

An introduction to the information technology aspects of health information management to include hardware components, systems architecture, operating systems, languages, software applications, tools, and related topics and concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3311. Health Informatics, Analytics and Data Use.

This course provides an overview and introduction to healthcare data management. Topics in the course will include the system development life cycle, project management, information infrastructure and data analytics. Implementing healthcare information systems, decision making, and consumer informatics will also be examined

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3350. Legal Aspects of HIM.

A study of the legal issues of Health Information Management with focus on statutory and regulatory requirements, case law and practical applications. Special legal problems associated with access to patient information, disposition of records, confidentiality and privacy, reporting requirements and compliance with current state and federal legislation are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3367. Disease and Medical Science I.

An introduction to the general disease process. Stress is placed upon the occurrence of disease, the signs and symptoms of disease, the test values and findings of disease, and the therapeutic treatment of disease

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3368. Disease and Medical Science II.

A continuation of Disease and Medical Science I

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3380. Quality Improvement Regulations & Procedures for HIM.

Overview of regulatory agency requirements for quality improvement, utilization management and risk management. Methods for integrating these procedures for credentialing and peer review are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3390. Principles of Management in HIM.

This course provides a study of the principles of management in healthcare and related organizations. The course provides the opportunity to apply the fundamentals of management including ethical decision making and human resources in the expanded role of the HIM Professional

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3463. Introduction and Technical Aspects of Health Information Management.

An introduction into principles and procedures used in health records organization, maintenance and retention, numbering and filing systems and procedures, forms control and design, and imaging. Emphasis placed on functions and duties of the HIM administrator, and relationships of the medical record to the health care delivery system

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 3464. Coding and Classification Systems I.

This course provides an introduction to ICD, CPT and other classifications and nomenclatures. Emphasis will be placed on the assignment of diagnosis and procedure codes. Management and the use of encoding systems is examined

**4 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**HIM 4101. Problems in Health Information Management.**

Comprehensive study of selected problems related to professional practice issues and changes in the health information management field. Emphasis will be on problem solving and application of management skills. May be repeated with permission of department chair  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**HIM 4225. Health Information Management Research and Education.**

A course of independent reading and research with the student completing a research project and developing an in-service instructional module. Emphasis is on the application of health information management theory and clinical practice. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4331. Health Information Management Research and Data Analysis.**

An introduction to research methods and experimental inquiry to acquaint the student with skills to critique and conduct studies in the health information management domains. The course will also provide the foundation for compiling, analyzing, and displaying statistics related to the delivery of healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4363. Comparative Record Systems.**

Theory and procedures for the maintenance and regulation of patient health information records in non-hospital medical care facilities to include long term care, ambulatory care, psychiatric care, rehabilitation and prison record keeping systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4364. Coding and Classification Systems II.**

This course is a continued study of ICD, CPT and other classifications and nomenclatures. The role of mapping among clinical terminologies is analyzed. The relationship with inpatient and ambulatory care reimbursement systems is also explored

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**HIM 4370. Finance and Reimbursement Methodologies for HIM.**

Course will address the reimbursement cycle from patient registration to claims billing with an emphasis on federal regulations and the role of HIM regarding payment systems. Topics will include accounting principles, budget processes, cost/benefit analysis, healthcare finance, compliance strategies, charge-master and casemix management, and payment systems and plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4383. Seminar in Health Information Management.**

Problem-solving course designed to assimilate actual internship encounters and theory. Emphasis is on integration of knowledge and making transition to the applications required to function as a health information manager

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HIM 4385. Health Information Management Practicum.**

Assignments made to promote uniformity and competency levels required of entry-level health information management professionals with practical application of administrative, management, and problem-solving skills required to complete projects and portfolio material. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4388. Practicum.**

Faculty-led administrative training for the associate degree health information progression student. Emphasis is placed on analysis of HIM personnel functions, interdepartmental relations, use of health information technology, and committee assignments. Full-time participation of the student is required

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Credit/No Credit

**HIM 4389. Professional Practice Experience.**

Supervised management experience and training in a healthcare or related setting. Student will participate in administrative, management, and problem-solving activities in the institutional setting. Full-time participation is required. Option for health information associate degree and post-baccalaureate students. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 40 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Credit/No Credit

**HIM 4390. Contemporary Leadership Principles for HIM.**

An analysis of the expanded role of the Health Information Management professional in the healthcare environment and application of the principles involved. Topics include strategic planning and forecasting, marketing, entrepreneurialism, leadership, motivation, consensus building, workforce diversity, change management, work redesign/reengineering, and project management. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4401. Organizational Management of Health Information Technology.**

This course studies the integrated use of health information technology throughout the healthcare organization. Students will evaluate how technology impacts the overall hospital operations from both a clinical and an administrative perspective, and will use planning and assessment tools to simulate health information technology system implementation

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4501. Professional Practice Experience.**

Supervised management experience and training in a healthcare or related setting. Student will participate in administrative, management, and problem-solving activities in the institutional setting. Full-time participation is required in addition to scheduled campus visits. (WI)

**5 Credit Hours. 1 Lecture Contact Hour. 40 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

# Bachelor of Science in Health Information Management (B.S.H.I.M.) Major in Health Information Management

**Minimum required: 120 semester hours**

## General Requirement

- Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

Freshman			
First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
Select one of the following:	3	HIST 1310	3
MATH 1315		Life and Physical Sciences <sup>2</sup>	3
MATH 13		Social and Behavioral Sciences <sup>2</sup>	3
MATH 1329		CIS 1323 or CS 1308	3
MATH 24			
MATH 2471			
POSI 2310	3		
COMM 1310	3		
US 1100 <sup>1</sup>	1		
	13		15
Sophomore			
First Semester	Hours	Second Semester	Hours
HIST 1320	3	POSI 2320	3
Life and Physical Sciences <sup>2</sup>	3	PHIL 1305 or 1320	3
English Literature <sup>2</sup>	3	BIO 2430	4
HIM 2360	3	Select one of the following:	3
Select one of the following:	3	HP 3302	
ART 2313		HP 3325	
DAN 2313		PSY 2301	
MU 2313		CJ 3347	
TH 2313		MATH 2328	
		QMST 23	

SOCI 3307					
15		13		Junior Hours	
First Semester	Hours	Second Semester	Hours	Summer	Hours
HIM 3301	3	HIM 3311	3	HIM 4370	3
HIM 3310	3	HIM 3350	3		
HIM 3463	4	HIM 3368	3		
HIM 3367	3	HIM 3380	3		
HIM 3390	3	HIM 3464	4		
	16		16		3
Senior					
First Semester	Hours	Second Semester	Hours		
HIM 4401	4	HIM 4225	2		
HIM 4331	3	HIM 4383	3		
HIM 4363	3	HIM 4385	3		
HIM 4364	3	HIM 4390	3		
		HIM 4501	5		
	13		16		

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have a minimum of 120 hours to graduate. See the College Advising Center.

<sup>2</sup> See Academic Services section of the catalog for course options that satisfy Literature, Life and Physical Sciences, and Social and Behavioral Sciences components.

## Minor in Health Information Management

A minor in Health Information Management requires 22 hours, including:

HIM 3350	Legal Aspects of HIM	3
HIM 3380	Quality Improvement Regulations & Procedures for HIM	3
HIM 3390	Principles of Management in HIM	3
HIM 3463	Introduction and Technical Aspects of Health Information Management	4
HIM 4331	Health Information Management Research and Data Analysis	3
HIM 4363	Comparative Record Systems	3
HIM 4385	Health Information Management Practicum	3
Total Hours		22

Appropriate sequencing of courses is necessary for progression to subsequent courses. This minor would enhance and broaden the scope of various other fields of study by providing a well-rounded introduction and an opportunity for practical applications of the administrative functions related to the management of health information. Completing this minor does not meet eligibility requirements for the R.H.I.A. (Registered Health Information Administrator) certification examination offered by the American Health Information Management Association. Academic advisement is important prior to enrolling in HIM minor courses due to sequencing requirements.

## St. David's School of Nursing

Nursing Building  
Round Rock Campus  
Round Rock, TX  
T: 512.716.2900 F: 512.716.2911  
www.nursing.txstate.edu (<http://www.nursing.txstate.edu>)

### Degree Program Offered

Bachelor of Science in Nursing (BSN), major in Nursing

The St. David's School of Nursing, located in Round Rock, educates and prepares graduates, using innovative teaching strategies and state-of-the-art technology, to function in professional nursing roles to manage illness; promote, maintain, and restore health; and provide end of life care for diverse individuals, families, populations, and communities across the lifespan. Graduates demonstrate competence in clinical judgment, collaborate as members of the interprofessional health care team and utilize scientifically-based interventions. These future nurses will provide ethical, safe, and effective patient-centered care and contribute to present and emerging research and health management practices.

The nursing program offers a Bachelor of Science in Nursing (B.S.N.). Graduates are prepared to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN®) and to meet the minimum competencies for beginning practice as a Registered Nurse. The B.S.N. graduate is prepared to pursue clinical excellence and certification by the American Nurses Credentialing Center (ANCC) and to continue formal education for the Master's Degree and Doctorate in Nursing. This program is accredited by the Commission on Collegiate Nursing Education.

The B.S.N. curriculum is 120 hours, including 61 hours of Texas State core curricular and prerequisite courses; and 59 hours of nursing courses. The degree program in nursing is a five semester program beginning at the junior level. Academic study in nursing is combined with clinical experiences in affiliated clinical settings, as well as hours spent in the simulation laboratories in the School of Nursing building located on the Round Rock campus. The curriculum is designed to accommodate the latest teaching technologies and learning strategies to provide students with the skills, knowledge and abilities needed for professional nursing practice in the 21st Century.

### Admission Process

The application period begins October 1 and closes January 15. Admission to the undergraduate major in nursing is competitive and selective. Applicants must first be admitted to Texas State University prior to submitting the School of Nursing application. Applicants must have a prerequisite GPA of 2.90 or higher and a science GPA of 3.00 or higher. However, a 3.0 prerequisite GPA is recommended to be competitive in the application process. Science courses require a minimum grade of "C" for admission. A maximum of 8 attempts (including W) on the 5 science courses, with no more than 2 attempts on any one science course, is permitted. There can be a maximum of 18 remaining prerequisite credit hours, (including no more than 2 of the 5 science courses) left to complete in the spring and summer semesters before final admission to the St. David's School of Nursing. An application fee must accompany the St. David's School of Nursing application. Additional criteria include a personal persuasive essay, scores from the Test of Essential Academic Skills (pre-nursing entrance

assessment) and 2 professional or academic references. One hundred (100) highly qualified junior level students are admitted each fall.

For complete admission procedures, see online at [www.nursing.txstate.edu](http://www.nursing.txstate.edu) (<http://www.nursing.txstate.edu>).

### Academic Progression

The nursing program must be completed in three years from the time of first admission. Students enrolled in the nursing program are required to maintain a grade of at least a "C" (2.0 GPA) in all courses in the nursing curriculum. Nursing courses are offered in a lock-step sequence. Each course is offered only once each academic year; therefore, progress in the program is delayed if the student fails a course. A student may repeat a nursing course only once. Following a second nursing course failure or withdrawing from nursing courses, the student is dismissed from the nursing program, but not from Texas State University.

### Graduation

To graduate with a Bachelor of Science in Nursing, a student must successfully complete all nursing courses with a "C" or better in addition to completing all prerequisite courses. Graduating students must have attained a 2.0 or higher Texas State University GPA with a minimum of a 2.50 GPA in the Nursing major.

### Immunizations and Basic Life Support

It is a policy of the College of Health Professions that each student complete a Health Certificate and Immunization Test Form. These forms must be signed by a physician or licensed healthcare provider. Students must stay current on immunizations. Basic Life Support for Healthcare Professionals is also to be completed.

### Criminal Background Check (2)/Drug Screen

The first criminal background check conducted through the Board of Nursing is required prior to admission to the St. David's School of Nursing at Texas State. A valid social security number is required by the St. David's School of Nursing's clinical partners for the second background check. This background check also includes a drug screening. All nursing students are subject to random or for cause screens.

### Bachelor of Science in Nursing (B.S.N.)

- Major in Nursing (p. 324)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

### Courses in Nursing (NURS)

#### NURS 3110. Health Assessment Across the Life Span Practicum.

This course requires demonstrated competency in the performance and documentation of physical assessments of well individuals and nursing care plans using the nursing process, critical thinking, and evidence-based practice. Apply teaching/learning principles in meeting the education needs of patients and demonstrate measures to maintain confidentiality of personal health information. Restricted to Nursing Majors

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3121. Essentials of Nursing Care Practicum.**

This course requires the use of nursing process and clinical reasoning principles to provide safe, effective, patient-centered care. Evidence-based practices will be used when performing essential nursing skills and procedures to care for patients experiencing acute and chronic alterations in health status. Restricted to Nursing Majors

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3221. Essentials of Nursing Care.**

This foundation course focuses on basic concepts related to essential nursing care of patients across the life span. Integration of knowledge of family systems, evidence-based practice, clinical reasoning, and the nursing process to provide safe, effective, patient-centered care will occur. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 3230. Healthcare Systems.**

Access and barriers to healthcare, past and current healthcare policy, and the professional nurse's role in policy and delivery of healthcare, will be emphasized. Qualitative and quantitative research in relation to healthcare systems, evidence based nursing practice, and ethical topics will be discussed. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3240. Nursing Care Across the Life Span Practicum.**

This course uses clinical experiences to apply the nursing process in providing safe, effective, and quality care to patients and families across the life span. Clinical reasoning and judgment will be used to provide ethical, holistic, and patient-centered nursing care, promote health, prevent disease, and manage illness. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3241. Acute Nursing Care of Adults Practicum.**

This course requires students to use evidence-based and collaborative practice principles in providing safe, effective, and quality care to adult patients experiencing acute, rapidly changing, life-threatening alterations in health status. Clinical reasoning and judgment will be used to provide ethical, holistic, patient-centered nursing care, manage illness, and promote health. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3250. Health Assessment Across the Life Span.**

Conducting health histories and physical assessments of well individuals and developing nursing care plans that include patient age-specific health promotion, illness prevention, and risk factors will be emphasized. Assessments will encompass cultural domains, diversity, belief systems, and the implications for traditional as well as complementary and alternative healthcare. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3260. Psychiatric Mental Health Nursing Practicum.**

This course utilizes clinical experiences to promote application of the nursing process in providing quality care to those experiencing mental health issues across the life span. Competency in using evidence-based practices to promote health, prevent disease, and manage illness will be developed. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3300. Foundations of Professional Nursing Practice.**

This course explores the history of nursing in the context of the evolving healthcare system. Laws, regulations, and ethical guidelines impacting nursing licensure and professional practice will be examined. The delivery of patient and family-centered, evidence-based, and safe quality care will be explored. Restricted to Nursing Majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NURS 3302. Research and Ethics.**

Introduction to critical appraisal of qualitative and quantitative research, and application of research and evidence-based processes used to improve decision-making and patient care outcomes across health settings. Integration of theory, information systems, clinical judgment, interprofessional perspectives and analysis of ethical conduct provide a foundation for learning the research process. Restricted to Nursing Majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NURS 3430. Pathophysiology and Pharmacology for Nurses.**

Introduction and overview of pathology, clinical pharmacology and pharmacotherapeutics, including how major drugs are used therapeutically for age-specific clients. Other topics to be covered include drug laws and regulations, patient and nurse safety. Prerequisite to NURS 3440 and NURS 3460. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3440. Nursing Care Across the Life Span.**

This foundational course focuses on the use of clinical reasoning and judgment to provide collaborative care to patients across the life span experiencing chronic and acute alterations in health status. Content is presented based on evidence-based practice and the prevalent health needs of patients. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 3441. Acute Nursing Care of Adults.**

This course focuses on the use of evidence-based practice and clinical reasoning and judgment to provide collaborative care to adult patients experiencing acute, rapidly changing, life-threatening alterations in health status. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**NURS 3460. Psychiatric Mental Health Nursing.**

This course applies theories, concepts, knowledge, and skills for the comprehensive nursing care of those coping with mental health issues. Building on a liberal education, this course integrates theories of mental illness, psychopathology, and current research findings as they relate to the presentation of symptoms and holistic management of care.

Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4201. Professional Growth and Empowerment.**

This course focuses on issues related to professional practice, career planning, personal goal setting, and empowerment of self and others. Factors related to job performance, performance expectations and evaluation, reality orientation, and commitment to lifelong learning will be discussed. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 4211. Nursing Care in Complex Health Practicum.**

This course focuses on providing care to patients with complex health alterations and life situations. Nursing care to patients in a variety of settings will be provided using the concepts of therapeutic communication and collaborative interventions with a focus on the complexity of the patient's or family's needs. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4241. Leadership and Management of Nursing Care Practicum.**

Leadership and management skills in a variety of nursing care situations will be applied. Nursing unit leadership and staff assignments based on assessment of client needs, resources, priorities, and competencies of staff will be covered. Assessment and evaluation of the provision of evidence-based nursing care will be performed. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4250. Maternal, Newborn, and Pediatric Nursing Practicum.**

This course is the clinical companion to NURS 4350. Concepts, knowledge, and skills taught in NURS 4350 will be applied to both simulation lab and clinical settings. Evidenced-based, developmentally and culturally appropriate nursing care in a variety of patient-care settings will be emphasized. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4280. Community-Based Nursing Practicum.**

Health assessment and planning will be conducted for diverse community groups including education, support groups/ resources, advocacy, response to situational crises, bio-terrorism and environmental emergencies, group dynamics, and impact on communities. Clinical experiences will occur in community or public health settings. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4311. Nursing Care in Complex Health.**

This course explores traditional and contemporary nursing concepts related to complex health alterations, compensations, and environments across the life span. Therapeutic communication, education, and collaborative interventions with diverse individuals and groups are emphasized including the use of complementary and alternative modalities to meet the needs of patients. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4350. Maternal, Newborn, and Pediatric Nursing.**

This course applies the nursing process and evidenced-based practice to the care of maternal, newborn, and pediatric patients in acute care settings. The course emphasizes the use of the nursing process to provide care to individuals and families that is developmentally and culturally focused. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4380. Community-Based Nursing.**

Using a variety of philosophical perspectives, community-based nursing care, learning to contrast care in hospital-based settings while transitioning into organizations within the community will be explored. Reflective assessment skills and mindful intervention/teaching projects will be developed. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4441. Leadership and Management of Nursing Care.**

Students discuss leadership and management theories related to organizational nursing roles, including competencies required for complex change, performance improvement, and transformational leadership. Organizational contexts – structure, processes, and culture – in leading and directing patient centered care are examined, along with relationships between governance structures, practice environments, and positive patient outcomes. Restricted to Nursing Majors. (WI)

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Science in Nursing (B.S.N.) Major in Nursing

### Minimum required: 120 semester hours General Requirement

1. Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

		Freshman	
First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
BIO 1330	3	CHEM 1341	3
HIST 1310	3	HIST 1320	3

Select one of the following:	3 PHIL 1305 or 1320	3
MATH 1315	COMM 1310	3
MATH 13		
MATH 1329		
PSY 1300	3	
US 1100 <sup>1</sup>	1	
	16	15

**Sophomore**

First Semester	Hours	Second Semester	Hours
BIO 2451	4	BIO 2452	4
English Literature <sup>2</sup>	3	Select one of the following:	3
POSI 2310	3	ART 2313	
BIO 2440	4	DAN 2313	
		MU 2313	
		TH 2313	
		NUTR 2360	3
		FCD 1351 or PSY 3300	3
		POSI 2320	3
	14		16

**Junior**

First Semester	Hours	Second Semester	Hours	Summer	Hours
NURS 3250	2	NURS 3440	4	NURS 3441	4
NURS 3110	1	NURS 3240	2	NURS 3241	2
NURS 3300	3	NURS 3460	4		
NURS 3121	1	NURS 3260	2		
NURS 3221	2	NURS 3302	3		
NURS 3430	4				
	13		15		6

**Senior**

First Semester	Hours	Second Semester	Hours
NURS 4350	3	NURS 4441	4
NURS 4250	2	NURS 4380	3
NURS 4311	3	NURS 4280	2
NURS 4211	2	NURS 4241	2
NURS 3230	2	NURS 4201	2
	12		13

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have 120 hours to graduate. See College Advising Center.

<sup>2</sup> See the Academic Services section of the catalog for course options that satisfy the Literature component.

## Department of Physical Therapy

Health Professions Building Ste. 310B

T: 512.245.8351 F: 512.245.8736  
[www.health.txstate.edu/PT](http://www.health.txstate.edu/PT) (<http://www.health.txstate.edu/PT>)

The Department of Physical Therapy is a graduate department offering a Doctor of Physical Therapy (DPT) degree. For more information, contact the Department of Physical Therapy or visit <http://www.health.txstate.edu/pt>. While the Department offers no undergraduate degree, it does provide advisement to students interested in pursuing a graduate degree in Physical Therapy.

The requirements for admission include:

1. completion of a baccalaureate degree with a minimum 3.0 GPA in the last 60 hours of course work completed for that degree,
2. minimum 3.0 GPA in all science courses,
3. minimum 3.0 GPA in prerequisite courses,
4. preferred minimum GRE of 150 on verbal and 145 quantitative, and
5. completion of all prerequisite courses, including general psychology, abnormal or developmental psychology, statistics, medical terminology, human physiology and anatomy or human structure and function, vertebrate physiology or physiology of exercise, general chemistry I and II, and general physics I and II.

This program is accredited by the Commission on Accreditation in Physical Therapy Education.

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Course in Physical Therapy (PT)

### PT 3400. Human Structure and Function.

A study of the structure and function of the human body with emphasis on the skeletal, muscular, and nervous systems. Course focuses on anatomy and physiology of body systems of special interest to students preparing to be health professionals. Laboratory study of the human cadaver is included

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## Radiation Therapy Program

Health Professions Building Room 220

T: 512.245.9081 F: 512.245.1477

[www.health.txstate.edu/rtt](http://www.health.txstate.edu/rtt) (<http://www.health.txstate.edu/rtt>)

The radiation therapist is a key member of the professional team, which uses various forms of radiation to treat cancer patients. Radiation therapy may be used alone, or in combination with surgery or chemotherapy, and is the treatment of choice for cure of many cancers. Because of sustained contact with patients, the radiation therapist has considerable responsibility in patient care, dietary counseling and treatment evaluation. The radiation therapist must also appreciate the significant psychological impact that cancer has on patients and their families. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The curriculum complies with the professional curriculum of the American Society of Radiologic Technologists.

The degree program, Bachelor of Science in Radiation Therapy with a major in Radiation Therapy, is a two- and one-half year program

beginning in the junior year. The junior and senior years combine clinical experiences in the affiliated radiation therapy facilities with advanced academic study in the professional disciplines. The program is designed to prepare students for the technical, theoretical, and psychological aspects of this career. Students acquire the technical skills necessary to plan, deliver, and record a prescribed course of radiotherapy. Upon completion of the degree, students are eligible to apply to the ARRT national registry examination.

## Admission

Any student entering Texas State may declare Pre-Radiation Therapy as their major. Admission to Texas State does not guarantee admission to the program. Admission to the program is competitive and selective. It is recommended that students arrange academic advising at least once prior to making application. The academic sequence begins during the fall semester. Enrollment is limited by student/faculty ratios in the clinical components of the program. The deadline for submission of applications is January 15.

### General Admission Requirements

1. Admission to Texas State
2. Satisfactory completion of all general education requirements and a minimum overall GPA of 2.75.
3. Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.
4. Students must receive a "C" or higher in all math, science, and support courses:
 

BIO 2430	Human Physiology and Anatomy	4
HP 3302	Biostatistics (or an equivalent)	3
AT 3358	Clinical Pathopharmacology	3
PHYS 1320	Elementary Physics	3
PHYS 1110	Elementary Physics Laboratory	1
CHEM 1341	General Chemistry I	3
CHEM 1141	General Chemistry Laboratory I	1
5. Effective fall 2017 applicants must have a Science and Support Course GPA of 3.0 or higher. No more than 2 attempts on any one science course is permitted. Courses included in the Science and Support Course GPA will be listed in the fall 2017 catalog. See College of Health Professions Academic Advising Center for more information.
6. See Academic Services section of the catalog for course options that satisfy literature components.
7. Completion of an application packet for admission.
8. Three letters of reference and a career goal statement.
9. Successful interview of selected candidates with admission committee.
10. 40 hour clinical observation with completed evaluation on file by Jan. 15.
11. Students must be able to perform the 13 Technical Standards indicated by the American Disabilities Act (refer to program website or department for more information).
12. Previous misdemeanor or felony convictions will affect admission to the program.

## Academic Progression

Students enrolled in the Radiation Therapy Program are required to maintain a grade of "C" or better in all coursework. Radiation Therapy courses are offered in a lock-step sequence. Each course is offered only once each academic year; therefore, progress in the program is affected should a student fall out of the sequence due to failure to successfully complete a course. A student who falls out of sequence (whether due to illness, course failure, or other reasons) will be delayed one year to repeat the course. In addition, a student may repeat a radiation therapy course only once. If the student does not earn a grade of at least "C" upon repeating the course, the student cannot continue in the program.

## Graduation

To graduate with a Bachelor of Science in Radiation Therapy Degree, a student must successfully fulfill the general education requirements and complete all radiation therapy courses with a "C" or better. The student must meet the requirements for clinical competency as described in the Directed Clinical Learning syllabi. Graduation students must have attained a 2.0 or higher Texas State University GPA with a minimum of a 2.75 GPA in the Radiation Therapy major.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician or licensed healthcare provider, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

## Criminal Background Check/Drug Screening

As a condition for placement in some professional practice sites, students may be required to have a background check and/or drug screening and meet other requirements set by individual sites. Information on the process of drug screening will be provided by the school/department/program. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for state license status following graduation and may affect admission consideration to the Radiation Therapy program.

## Bachelor of Science in Radiation Therapy (B.S.R.T.)

- Major in Radiation Therapy (p. 329)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Radiation Therapy Technology (RTT)

### RTT 3120. Clinical Simulation Lab I.

Students are provided instruction and simulated practice in a controlled laboratory setting. This course provides first-year students foundational clinical set-up skills from which to build on during the clinical learning practicum course

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RTT 3121. Clinical Simulation Lab II.**

Students are provided instruction and simulated practice in a controlled laboratory setting. This course provides instruction, demonstration and participation in immobilization, positioning and simulation with the aid of an anthropomorphic phantom. Students will learn aspects of simulation for basic treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3220. Directed Clinical Learning I.**

Students will observe the basic operations of the radiation oncology clinic while interacting with the multidisciplinary team involved in providing treatment and care. The student will be introduced to oncology terminology, equipment, and techniques used for treatment. Learning is achieved through direct patient care, with instruction, demonstration and direct supervision. Prerequisite: Acceptance into the major

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3221. Directed Clinical Learning II.**

Students will gain additional skills in clinical procedures, interaction with patients and professional personnel. Students apply knowledge from previous clinical learning experience under the supervision of a registered radiation therapist. Students are tested on intermediate clinical radiation therapy skills

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3300. Patient Care in Radiation Oncology.**

This course will focus on basic nursing concepts involved in providing care for the cancer patient. Topics to be included in the class will be cancer as a chronic health problem, social roles and cancer, multidisciplinary approach to patient care, psychosocial dimension of cancer, in-treatment examinations, follow-up examinations, emergency management, chemotherapy and nutritional aspects of treating patients with cancer

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3301. Introduction to Radiation Oncology.**

An overview of radiation oncology and the role of the radiation therapist. Presentations will orient the student to the physical and biological basis of radiation equipment, procedures, tumor pathology, and patient interaction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RTT 3302. Radiologic Science and Medical Imaging.**

This course will cover the principles governing production of radiation, interaction of radiation with matter, and protection of the radiation worker and patient from exposure. Basic principles of x-ray equipment, exposure factors, latent image formation, and processing of radiographs are presented. Prerequisite: Program Director's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3310. Physics of Radiation Therapy I.**

Students will learn the principles of radiation physics as they apply to the treatment and care of the cancer patient. Course will include a thorough review of x-ray production, fundamental principles, concepts and terminology. Topics studied include measurements, general principles, structure of the atom, structure of the matter, electrostatics, magnetism, electrodynamics, electromagnetism, rectification and production and properties of radiation and radiographic techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3314. Radiation Therapy Sectional Anatomy.**

The course provides instruction in identifying cross-sectional anatomy to develop the ability to make anatomic correlations between multiple planes of view. Major organs, lymphatics, vessels are emphasized as related to the clinical significance in the field of radiation therapy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 3350. Radiobiology.**

This course will cover the principles of cell response to radiation, including tissue sensitivity, survival, repair and the latent effects of irradiated tissue. Topics to be covered include the development of radiation science, cellular targets for radiation action, target theory, physical/ chemical factors affecting radiation response, biological factors, repair and recovery, fractionated doses and dose rate, early/ acute effects of whole body exposure, late/chronic effects of whole body exposure, and radiation protection dose guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4120. Clinical Simulation Lab III.**

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 3121. This course provides instruction, demonstration, and participation in immobilization, positioning and simulation with the aid of an anthropomorphic phantom. Students will learn aspects of simulation for basic intermediate treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4121. Clinical Simulation Lab IV.**

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 4120. This course provides instruction, demonstration and participation in immobilization, positioning and treatment simulation. Students will learn aspects of simulation for basic, intermediate, and some advanced treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4122. Clinical Simulation Lab V.**

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 4121. This course provides instruction, demonstration and participation in immobilization, positioning and treatment simulation. Students will learn aspects of simulation for basic, intermediate, and some advanced treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4189. Radiation Therapy Literary Scholarship and Manuscript Writing.**

This intensive writing course provides instructions in research strategies, critical review and analysis of peer reviewed publications. An introduction to scholarly resources and professional manuscript development using peer reviewed journal guidelines for the profession of radiation therapy. This course prepares students for RTT 4191 Radiation Therapy Seminar. (WI)

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RTT 4190. Professional Issues in Radiation Therapy.**

This capstone course provides a comprehensive review of the program curriculum and clinical practice in the field. Current radiation therapy treatment management techniques and issues are presented for analysis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RTT 4191. Radiation Therapy Seminar.**

This course is a continuation of RTT 4189. The course provides instruction in the completion of a final draft for the student's technical manuscript. The course work builds from the completed manuscript and draws from the material and knowledge gained in RTT 4189 to develop a formal presentation

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4220. Directed Clinical Learning III.**

Students will continue to develop skills during this clinical course. Progressive interaction with patients and professional personnel are monitored as students practice radiation therapy in a supervised setting. Additional areas include problem solving, identifying machine components and basic side effect management. Students will demonstrate competence in beginning, and intermediate procedures

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4221. Directed Clinical Learning IV.**

The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and some advanced procedures through supervised clinical instruction, progressing through a competency-based educational sequence

**2 Credit Hours. 1 Lecture Contact Hour. 24 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4222. Directed Clinical Learning V.**

The students will complete their clinical training by practicing all the skills they have learned in the classroom, lab, and clinical practicum. The students will continue demonstrating proficiency while completing the Skills Competency Checklist

**2 Credit Hours. 1 Lecture Contact Hour. 24 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4291. Professional Issues in Radiation Therapy.**

This capstone course provides a comprehensive review of the program curriculum and clinical practice in the field. Current radiation therapy treatment management techniques and issues are presented for analysis

**2 Credit Hours. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4310. Physics of Radiation Therapy II.**

Students will continue to learn the principles of cell response to radiation. Topics covered will include properties of x-ray and gamma radiation, radiation units, x-ray production, photon interactions, beam characteristics, radioactivity, treatment units, and particle irradiation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4330. Quality Assurance.**

Students will study quality assurance tests related to patient charts, treatment accessories, patient communication devices, machine reading and safety devices. Emphasis on quality control procedures to include Continuous Quality Improvement (CQI), Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and responsibilities of each team member in relation to quality assurance duties

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4331. Operational Issues in Radiation Therapy.**

Course content is designed to focus on various radiation therapy operational issues. Accreditation, CQI development and assessment techniques will be presented. Human resource issues and regulations impacting the radiation therapist will be examined. Topics include the role of network information systems within the radiation oncology department. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RTT 4360. Dosimetry I.**

This course will cover the basic concepts in treatment planning and clinical dosimetry. Students will learn to identify treatment preparation processes and needs for beam modifying devices. Students will also be taught isodose charts for several treatment arrangements and be able to calculate a variety of external beam treatment formulas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4361. Dosimetry II.**

Students will learn additional concepts in treatment planning and clinical dosimetry addressed in Dosimetry I. Computerized treatment planning applications will enhance the understanding of medical dosimetry

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**RTT 4370. Clinical Radiation Oncology I.**

The first of a two-part course, this course advances the student's knowledge of neoplastic disease management. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread principles of treatment, staging, and prognosis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4371. Clinical Radiation Oncology II.**

The second of a twopart course, this course is a continuation of disease specific instruction. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread, principles of treatment, staging, and prognosis. Prerequisite: RTT 4370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



# Bachelor of Science in Radiation Therapy (B.S.R.T.) Major in Radiation Therapy

**Minimum required: 120 semester hours**

## General Requirement

- Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

First Semester	Hours	Second Semester	Hours	Summer	Freshman Hours
ENG 1310	3	ENG 1320	3	English Literature <sup>2</sup>	3
HIST 1310	3	HIST 1320	3	PHIL 1305 or 1320	3
BIO 1320 or 1330	3	Select one of the following:	4	PSY 1300	3
COMM 131C	3	BIO 1421			
US 1100 <sup>1</sup>	1	BIO 1331 & BIO 1131			
		CHEM 1341	3		
		CHEM 1141	1		
	13		14		9

First Semester	Hours	Second Semester	Hours	Sophomore Hours
BIO 2430	4	AT 3358	3	
POSI 2310	3	POSI 2320	3	
MATH 2417 or 2471	4	Select one of the following:	3	
Select one of the following:	3	PHYS 13:		
ART 2313		PHYS 1315		
DAN 231:		PHYS 13:		
MU 2313		Select one of the following:	1	
TH 2313		PHYS 11:		
		PHYS 1115		
		PHYS 11:		
		Select one of the following:	3	
		HP 3302		
		PSY 2301		
		SOCI 330		
		MATH 2328		
		CJ 3347		
	14		13	

First Semester	Hours	Second Semester	Hours	Summer	Junior Hours
RTT 3314	3	RTT 3310	3	RTT 4189	1
RTT 3301	3	RTT 3302	3	RTT 4360	3
RTT 3300	3	RTT 3350	3	RTT 4220	2
RTT 3220	2	RTT 4370	3	RTT 4120	1
RTT 3120	1	RTT 3221	2		
		RTT 3121	1		
	12		15		7

First Semester	Hours	Second Semester	Hours	Senior Hours
RTT 4371	3	RTT 4361	3	
RTT 4330	3	RTT 4331	3	
RTT 4310	3	RTT 4190	1	
RTT 4221	2	RTT 4191	1	
RTT 4121	1	RTT 4222	2	
		RTT 4122	1	
	12		11	

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have 120 hours to graduate. See College Advising Center

<sup>2</sup> See Academic Services section of the catalog for course options that satisfy the Literature component.

## Department of Respiratory Care

Health Professions Building Room 351

T: 512.245.8243 F: 512.245.7978

[www.health.txstate.edu/rc](http://www.health.txstate.edu/rc) (<http://www.health.txstate.edu/rc>)

The Bachelor of Science in Respiratory Care Program prepares students to practice as respiratory care professionals and take their place as a key healthcare team member. Skilled in assessing patients with breathing disorders in the emergency room, intensive care units and many other areas in healthcare facilities, respiratory therapists work directly with physicians on newborn, pediatric or adult patients to analyze oxygen levels and breathing difficulty. Therapists administer medications to relieve breathing distress, provide pulmonary/lung therapies, and conduct lung diagnostics for all ages. Graduates find employment in many settings such as hospitals, pulmonary rehabilitation clinics, doctors offices, sleep labs, homecare, and air-life transport teams working with patients in the emergency room, newborn/pediatric/adult intensive care units, and many other areas.

Respiratory care (RC) majors take classes on the San Marcos campus and gain clinical experience in area hospitals. Students successfully admitted to the program must complete the sequenced curriculum within the cohort group. Individuals taking core courses prior to applying for admission to the RC program should contact the College of Health Professions' Advising Office. Students completing an associate degree in RC from another university or college are eligible to apply for admission to the B.S.R.C. Program at Texas State for bachelor degree completion. For information on this option, see the department chair. The B.S.R.C. Program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) and qualifies graduates to take national board

credentialing exams offered by the National Board for Respiratory Care immediately upon completion.

The department also offers a graduate certificate in Polysomnographic Technology (sleep studies) at the graduate level that is fully accredited by CoARC and qualifies individuals to sit for national board credentialing exams immediately upon completion. The polysomnographic (PSG) graduate certificate is comprised of six courses (15 credit hours) with three courses offered each fall and spring. Individuals credentialed in PSG provide diagnostic and therapeutic treatment for those suffering from sleep disorders such as obstructive sleep apnea, insomnia, narcolepsy, and other conditions. Admission for the Polysomnographic Technology certificate is granted each summer for a cohort starting in the fall. Please refer to the Graduate catalog for admission requirements and course descriptions.

## Admission Process

Application for admission to the RC program must be made to the RC department in addition to regular university admission procedures. All applicants must have an overall GPA of 2.50 to apply. It is highly recommended that individuals interested in applying for the RC program complete RC 2213 prior to application. Admission is competitive and enrollment is limited depending on student/faculty ratios in the clinical phase of the program. All courses must be taken in sequence and completed with a grade of C or higher in order to progress to the next semester in the curriculum. Due to performance standards of the profession, students must meet specific ADA standards in accordance with physical and emotional requirements of the academic program in order to qualify for admission.

## Program Progression

Successful program progression requires students to complete each semester in a lock-step sequence with a grade of "C" or higher in all RC courses. According to departmental policy, students with a grade of less than a "C" in a RC course will be ineligible to continue the program and must reapply to the program the following year. To be considered for program readmission, all original program admission criteria must be met. If readmitted, an assessment of clinical skills will be required to determine appropriate clinical placement in the curriculum sequence.

## Graduation

Requirements for B.S.R.C. completion and graduation include a Texas State GPA of 2.0 with a RC major GPA of 2.25.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide the College Health Report completed by a physician or licensed healthcare provider, and must complete specific immunizations before being placed in a clinical or internship assignment. Information on these requirements and forms may be obtained through the departmental office.

## Background Checks and Drug Screening

As a condition for placement in some professional practice sites, all students are required to have a background check and/or drug screening to meet requirements of individual sites. Information on the drug screening process will be provided by the department. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for state respiratory

care practitioner license status following graduation and may affect admission consideration.

## Bachelor of Science in Respiratory Care (B.S.R.C.)

- Major in Respiratory Care (p. 332)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Respiratory Care (RC)

### RC 2213. Introduction to Respiratory Care.

This course offers an in-depth overview of the respiratory care profession to acquaint the student with the responsibilities of the respiratory therapist as part of healthcare team. Progression of the profession, career opportunities, past and future impact of profession on patient recovery and health maintenance, and medical gas therapy will be covered

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RC 3125. Pulmonary Function Testing.

This course examines the most common pulmonary function tests, their techniques, and the pathophysiology that may be evaluated by each test. Pulmonary function equipment, calibration, and the American Thoracic Society guidelines will be discussed. Laboratory practice of performing the tests will be provided to develop skills for testing patients

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RC 3212. Pharmacology.

A comprehensive study of pharmacology principles. Receptor theory, clinical applications of medications, and historical analysis of first-generation medications will be covered. Current medication trends and recommendations are also examined

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RC 3232. Hemodynamics.

This course is an advanced study of cardiovascular hemodynamic measurements. Normal cardiovascular physiology and measures are examined, as well as variations caused by disease. Current clinical trends and practices in hemodynamic procedures are also explored

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### RC 3313. RC Clinical Practice I.

This course provides an introduction to respiratory care clinical skills, including vital signs, chest assessment, infection control, aerosolized medication delivery, oxygen therapy, hyperinflation therapy, and airway clearance. This course prepares the student for direct patient care to be performed in more advanced courses. Direct patient care is performed under close supervision

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3314. Respiratory Care Instrumentation.**

Through lectures and lab exercises, students are acquainted with concepts of design, function, and operation of basic respiratory care equipment. Oxygen cylinders, regulators, flowmeters, oxygen analyzers, oximeters, oxygen adjuncts, humidifiers, nebulizers, airways, and pressure cycled ventilators will be covered. The course also covers respiratory pharmacology, decontamination of equipment, and arrhythmia recognition

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3315. Cardiopulmonary - Renal Anatomy & Physiology.**

This course provides an in-depth human gross anatomy study of the cardiac, respiratory, and renal systems. Clinical application of pulmonary anatomy and physiology will also be explored

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3316. Fundamentals of Respiratory Care.**

This course provides a study of theories and modalities utilized in delivering, monitoring, and evaluating basic respiratory therapeutics to patients with compromised respiratory function in various healthcare settings. Aspects of artificial ventilation, arterial blood gas analysis, lung volume diagnostics, and hyperinflation intervention will be covered in patient scenarios

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3321. Cardiopulmonary Pathology.**

As an introduction to the assessment, treatment, and pathophysiology of respiratory diseases, this course focuses on the signs, symptoms, etiology, pathophysiology, diagnosis and treatment of selected diseases. Utilizing clinical simulation software to develop critical thinking regarding assessment, diagnostic data gathering. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RC 3322. Critical Care Concepts.**

This course provides students with an in-depth study of selected respiratory care techniques with an emphasis on the care of critically ill patients. Critical skills and knowledge of mechanical ventilation, bedside diagnostic techniques, patient monitoring, and rehabilitation are explored in the critical care setting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3323. RC Clinical Practice II.**

Students perform clinical procedures and interact with patients and professional personnel in a healthcare institution under the supervision of a respiratory therapist. Students gain direct patient care experience as presented in medical/surgical and pediatric clinical situations. Preparatory instruction is provided for mechanical ventilation and other critical care procedures

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3324. Critical Care Instrumentation.**

A comprehensive study of advanced equipment and technology utilized in the critical care, homecare, pulmonary rehabilitation and blood gas lab settings. Lectures and class activities will detail hardware for hemodynamic monitoring, supplemental oxygen administration, noninvasive monitoring, blood gas measurement, quality control and assurance and mechanical ventilator concepts

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3333. RC Clinical Practice III.**

A supervised clinical education experience in which the student administers advanced respiratory therapeutics to patients in the adult critical care setting. Diagnostic and monitoring procedures, including arterial blood gases, bedside physiologic monitoring, airway care, advanced pulmonary function testing, ventilator management will be performed according to physician orders

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3334. Neonatal Respiratory Care.**

An in-depth study of neonatal utero development, fetal lung development, fetal circulation, and cardiovascular changes at birth. Neonatal respiratory emergencies, neonatal respiratory diseases and management, congenital defects, and respiratory care procedures specific to the neonate will be discussed. A specific emphasis on neonatal mechanical ventilation will be included

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3335. RC Clinical Practice IV.**

This course provides an advanced clinical education experience in respiratory therapeutics on patients in the adult critical care setting. Appropriate clinical expectations include experience in arterial blood gas procurement and measurement, bedside physiologic monitoring, airway care, and monitoring of mechanical ventilation in the intensive care unit

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4211. Respiratory Care Research.**

This course provides an introduction to applied experimental design, research ethics, and data analysis focusing on the respiratory care profession. Students will participate in each step the research process from developing a personal research hypothesis and research design through IRB submission. Prerequisite: HP 3302 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4212. Critical Care Clinical Simulation.**

This course will prepare respiratory care students to successfully navigate multiple clinical simulation patient cases. Clinical simulations covered reflect real-life patient scenarios and mirror the content found on national board exams. Students will receive focused attention on board exam review and evidence-based care

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4223. ICU Internship.**

Through affiliations with agencies, hospitals and selected treatment centers, the student interns in the intensive care setting by providing patient care and administering critical care therapeutics. Analysis and clinical application of advanced ventilator care of patients is emphasized along with patient care diagnostics and management in the ICU

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**RC 4224. Research Seminar.**

A study of the research process from a review of research design to methodology implementation including data collection, statistical analysis, and presentation of a research proposal on a topic in the respiratory care discipline. The course provides direct research experience culminating in a research paper and presentation.

Prerequisite: RC 4211

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4225. Specialization Internship.**

This course provides the student with an internship opportunity to gain clinical experience in sub-specialty areas including pediatrics, adult intensive care, neonatal intensive care, pulmonary function testing, home care/durable medical equipment, subacute care, pulmonary rehabilitation, polysomnography, education, and research. Specific specialty offerings will be based on clinical availability

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**RC 4314. Advanced Ventilator Concepts.**

This course provides an in-depth study of specific adult mechanical ventilators addressing traditional and proposed ventilator classification, various methods of operation, parameter interrelationships and ventilator patient monitoring. Lectures and class activities will focus on ventilator analysis of several contemporary volume-, time-, pressure- and flow-cycled ventilators with advanced graphics interpretation required

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4316. RC Clinical Practice IV.**

This course provides an advanced intensive care clinical education requiring students to monitor and administer critical care therapeutics on assigned patients in the adult and neonatal critical care setting.

Cardiopulmonary diagnostic experience will be gained through arterial blood gas and co-oximetry assessment with ventilator graphic analysis

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4317. Pulmonary Rehabilitation.**

This course is designed to introduce students to the medical, ethical, and insurance reimbursement issues of pulmonary rehabilitation, homecare, and sleep diagnostic facilities. The role of therapists in case management, treatment requirements, and discharge planning along with the impact of legislation, regulations, and politics will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4318. Independent Study in Respiratory Care.**

This course provides the student an in-depth study on a topic or healthcare problem impacting respiratory care. The course may be repeated for credit with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4321. Leadership and Management for Respiratory Care Professionals.**

This course is designed to comprehensively examine the dynamic evolution of respiratory care as a profession. The role of the respiratory care professional in the areas of leadership, management, and professional ethics will be explored with regards to the profession's impact on legislation, regulation, and politics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RC 4322. RC Practitioner Seminar.**

Students will research and present selected case studies by students to physicians, therapists, and colleagues. Presentations will emphasize total patient management with etiology, symptoms, pathophysiology, diagnosis, and treatment of specific diseases including asthma, pulmonary embolism, CHF, COPD, ARDS, neurologic diseases, inhalational injury, pneumonia, sleep disordered breathing, AIDS, and drug overdose. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Science in Respiratory Care (B.S.R.C.) Major in Respiratory Care

**Minimum required: 120 semester hours**

### General Requirement

- Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

				Freshman
First Semester	Hours	Second Semester	Hours	
US 1100 <sup>1</sup>	1	BIO 2430	4	
ENG 1310	3	ENG 1320	3	
POSI 2310	3	COMM 1310	3	
PSY 1300 or SOCI 1310	3	HIST 1310	3	
BIO 1330	3	Select one of the following:	3	
Select one of the following:	3	MATH 13		
ART 2313		MATH 1319		
DAN 2310		MATH 13		

MU 2313		MATH 2417			
TH 2313		MATH 24			
	16		16		
					<b>Sophomore</b>
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>		
HIST 1320	3	BIO 2400 or 2440	4		
English Literature <sup>2</sup>	3	POSI 2320	3		
HIM 2360	3	Select one of the following Statistics courses:	3		
PHIL 1305 or 1320	3	HP 3302			
CHEM 1341	3	HP 3325			
		SOCI 330			
		PSY 2301			
		MATH 23			
		CJ 3347			
		Select one of the following:	3		
		PHYS 1310			
		PHYS 131			
		PHYS 1320			
		PHYS 131			
	15		13		
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Summer</b>	<b>Junior Hours</b>
RC 3313	3	RC 3321	3	RC 3333	3
RC 3315	3	RC 3323	3	RC 3322	2
RC 3212	2	RC 3322	3	RC 3334	3
RC 3314	3	RC 3324	3		
RC 3316	3	RC 3125	1		
	14		13		8
					<b>Senior</b>
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>		
RC 4211	2	RC 4223	2		
RC 4212	2	RC 4321	3		
RC 4314	3	RC 4322	3		
RC 4316	3	RC 4225	2		
RC 4317	3	RC 4224	2		
	13		12		

Total Hours: 120

<sup>1</sup> If US 1100 is waived, the student must have a minimum of 120 hours to graduate. See College Advising Center.

<sup>2</sup> See the Academic Services section of the catalog for course options that satisfy Literature components.

## College of Liberal Arts

### Dean

Michael J. Hennessy, Ph.D.  
Flowers Hall Room 313  
T: 512.245.2317 F: 512.245.8291  
<http://www.txstate.edu/liberalarts>

### Associate Dean

Charles Bousman, Ph.D.

### Associate Dean

Nancy J. Grayson, Ph.D.

### Associate Dean

Susan B. Day, Ph.D.

### Center Directors/Department Chairs/Program Directors

International Studies—Dennis Dunn, Ph.D.  
Diversity and Gender Studies—Audwin Anderson, Ph.D.  
Study of the Southwest—J.F. de la Teja, Ph.D.  
Anthropology—Elizabeth Erhart, Ph.D.  
English—Daniel T. Lochman, Ph.D.  
Geography—Alberto Giordano, Ph.D.  
History—Mary C. Brennan, Ph.D.  
Modern Languages—Lucy Ditto Harney, Ph.D.  
Philosophy—Craig Hanks, Ph.D.  
Political Science—Kenneth L. Grasso, Ph.D.  
Psychology—William L. Kelemen, Ph.D.  
Sociology—Chad L. Smith, Ph.D.

The College of Liberal Arts provides students with the foundation for a liberal education, preparing graduates to think independently, to choose freely, to base personal and professional decisions on a broad understanding of history and culture, and to live full, rewarding lives. Recognizing the central importance of liberal education, the university requires that more than fifty percent of the general education core curriculum be taken in the College of Liberal Arts, and students increasingly declare majors or minors in one of the college's nine departments or special programs.

The College of Liberal Arts offers the Bachelor of Arts in each of its nine departments: Anthropology, English, Geography, History, Modern Languages, Philosophy, Political Science, Psychology, and Sociology. The Bachelor of Science is awarded in Anthropology, Psychology, Sociology, and Geography. The college also offers two special degrees: the Bachelor of Arts in International Studies (B.A.I.S.), and the Bachelor of Public Administration (B.P.A.). The college houses eleven interdisciplinary minors: Aging and the Life Course, Diversity Studies, International Studies, Media Studies, Medieval and Renaissance Studies, Nature and Heritage Tourism, Religious Studies, Southwestern Studies, Studies in Popular Culture, Value Studies, and Women's Studies. The college provides education not only in the traditional humanities but also in the practical application of the humanities to professional careers.

## Specific Requirements of the College of Liberal Arts

The following requirements apply to all degree programs within the College of Liberal Arts. Students transferring in more than 15 hours will not be required to complete US 1100 – University Seminar. Bachelor of Arts degrees require two semesters of literature and one additional science course. Transferring in a core coded 040 course from another



institution does not waive this requirement. See your academic advisor for questions related to these requirements.

## Academic Advising Center

Flowers Hall Room 322

T: 512.245.1852 F: 512.245.7949

[www.txstate.edu/liberalarts/advisingcenter](http://www.txstate.edu/liberalarts/advisingcenter) (<http://www.txstate.edu/liberalarts/advisingcenter>)

The College of Liberal Arts Academic Advising Center provides effective guidance to a diverse community with integrity and commitment. In a supportive and collaborative environment, we motivate our students to take an active role in achieving their educational goals. The advising center works in cooperation with each department and center to provide quality academic advising and information to majors and minors within the College of Liberal Arts. The advising center is a resource for students, as advisors offer counseling on academic and administrative issues. Students can find information on core curriculum requirements, majors and minors, semester course selection, transfer credit, academic probation and suspension, progress toward degree completion, study abroad opportunities, and career options.

As students progress toward the completion of their degree, academic advisors recommend they follow a checklist of their major and a degree audit to guide them in course selection. Our advisors are available to offer explanations of these documents and assist in the process of applying for graduation. From new student orientation to graduation, academic advisors work closely with departments and centers in the college and throughout the university to ensure that each of our students has a successful academic career.

In an effort to prepare our Liberal Arts students for a career that offers them the opportunity to use their broad range of skills and abilities, the advising center has partnered with Career Services to bring special events and programs to the students in the college. In addition to meeting the individual needs of students, Career Services and the College of Liberal Arts frequently host programs and panels for specific majors where students can network with professionals.

## Center for International Studies

Derrick Hall Room 101

T: 512.245.2339 F: 512.245.7857

[www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies) (<http://www.txstate.edu/internationalstudies>)

In Texas and throughout the United States, demand for graduates with knowledge of international business, cultural and area studies, and language skills continues to increase. The growing movement toward intercontinental and international trade blocs, such as NAFTA and the European Union, has created a need for persons who are not only skilled in business and communications technology, but also cultural understanding and international business practices. The Bachelor of Arts in International Studies (B.A.I.S.) degree offered by the Center addresses this need and prepares students for work in multinational corporations, state and federal governmental agencies with international divisions, and nonprofit corporations.

In addition to its academic programs, the Center gives its students several opportunities to develop global awareness and intercultural sensitivity during their undergraduate years, including internships and study abroad.

## Academic Advising

Both pre-majors and declared majors will receive advising assistance from the College of Liberal Arts Academic Advising Center. The Center for International Studies employs a full time academic program coordinator who provides information on graduate study, internships, and planning for study abroad. The Center works closely with the Office of Career Services to prepare students for internationally-focused careers in various fields, and with the College of Liberal Arts Academic Advising Center to ensure our students' timely graduation.

## Admission and Graduation Requirements

All majors in International Studies are required to have at least a sophomore standing, successfully completed ENG 1310, ENG 1320, HIST 1310, HIST 1320, POSI 2310 and POSI 2320, or approved equivalents and a minimum 2.75 Texas State GPA to officially declare the major. Eligible students should schedule an advising appointment with the Liberal Arts Advising Center to declare the major in International Studies. For graduation, all majors are required to maintain a TXST GPA of 2.75, a major GPA of 3.00, complete the Texas State general education core curriculum (including the additional special requirements for the Bachelor of Arts), the International Studies Core, and the International Studies major courses. Additionally, all undergraduate students pursuing the B.A.I.S. degree are required to complete a global academic experience. The requirement can be fulfilled by a study abroad course or the IS 4387, International Studies Internship, if it entails international work, service, or group research. The Center's director and academic program coordinator will work closely with IS majors to find the best options for faculty-led or independent international study. International Studies majors are not required to complete a minor. Students must meet all course prerequisites. Please see the College of Liberal Arts, and Degrees and Programs sections of this catalog for specific information on the general education core curriculum, and special requirements for the Bachelor of Arts.

International Studies majors are required to complete the special requirements in science, modern language, and English for the Bachelor of Arts listed under the Degrees and Programs section of this catalog. For International Studies majors, the list of approved additional science courses under that section is expanded to include statistics. Approved statistics courses are:

QMST 2333	Business Statistics	3
SOCI 3307	Statistics for the Behavioral Sciences	3
GEO 3301	Research Methods in Geography	3
POSI 3377	Analytical Techniques	3
CJ 3347	Statistics For Criminal Justice	3
HP 3302	Biostatistics	3
MATH 2358	Discrete Mathematics I	3
MATH 3305	Introduction to Probability and Statistics	3

## International Studies Core

All majors in International Studies are required to complete 27 hours of core courses:

ECO 2314	Principles of Microeconomics	3
ECO 2315	Principles of Macroeconomics	3
GEO 1310	World Geography	3
GEO 3303	Economic Geography	3

HIST 2310	Western Civilization to 1715	3
or HIST 2311	History of World Civilization to the 17th Century	
HIST 2312	History of World Civilization from the 17th Century	3
or HIST 2320	Western Civilization, 1715 to Date	
IS 4380	International Studies Seminar	3
POSI 3322	Introduction to International Studies	3
Modern Language of one advanced (3000- or 4000-level) course in the same language that was completed for the additional BA requirements		3
MODL 2310	Intermediate Modern Languages I	
MODL 2320	Intermediate Modern Languages II	
Total Hours		27

## Bachelor of Arts in International Studies (B.A.I.S.)

- Major in International Relations (p. 335)
- Major in International Studies (Asian Studies Focus) (p. 336)
- Major in International Studies (European Studies Focus) (p. 337)
- Major in International Studies (Interamerican Studies Focus) (p. 337)
- Major in International Studies (International Business Focus) (p. 338)
- Major in International Studies (Middle East/African Studies Focus) (p. 339)
- Major in International Studies (Russian/East European Studies Focus) (p. 339)
- Major in International Studies (Travel and Tourism Focus) (p. 340)

## Minor

- International Studies (p. 341)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in International Studies (IS)

### IS 4380. International Studies Seminar.

A senior-level seminar that explores international topics through reading, writing, research and group discussion. Students will be expected to produce a significant research paper. This course is required for all International Studies majors and should be taken in the senior year of undergraduate study. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

### IS 4387. International Studies Internship.

A semester-long work and study experience in a local, national, or foreign setting. Internships must be approved by the director of the Center for International Studies. May be repeated for credit

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### IS 4687. International Studies Internship.

A semester long work and study experience in a local, national, or foreign setting. Internships must be approved by the director of the Center for International Studies. Open to International Studies majors and minors with 60 or more undergraduate hours and a minimum Texas State GPA of 3.00. Repeatable once for credit

**6 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Relations

**Minimum required: 120 semester hours**

### General Requirements

#### 1. Required Courses:

ECO 3317	International Economics	3
GEO 3340	Political Geography	3
HIST 3357	History of U.S. Foreign Relations	3
POSI 4356	International Law	3
POSI 4359	Politics of International Economic Relations	3
Select two of the following:		6

COMM 3318K Diversity and Communication

COMM 3318M Intercultural Communication in the Americas

COMM 3329 Intercultural Communication

ECO 3353 Comparative Economic Systems

GEO 3349 Population Geography

or SOCI 3329 Population Dynamics

H ED 3301 Environmental Health Issues

H ED 3348 Prevention of Disease

MC 4303 International Advertising

PHIL 3322 Professional Ethics

POSI 4326 Issues in World Politics

POSI 4327 Theories of International Politics

POSI 4345 American Foreign Policy

POSI 4357 International Organization

POSI 4367 International Conflict and Security

PSY 4393 International Psychology

SOCI 3328 Complex Organizations

SOWK 3339 Selected Topics in Social Work (when emphasis is international)

Select one of the following: 3

HIST 3312 Renaissance and Reformation

HIST 3313 Europe During the Old Regime, 1600-1760

HIST 3322 Colonial History of Latin America to 1828

HIST 4307 Medieval European History, 300-1400

HIST 4317 Tudor-Stuart England, 1485-1689

HIST 4320 Origins of Christianity

HIST 4325 Islamic History to 1798

HIST 4333 The History of Russia and Eurasia to 1917

Select one of the following: 3

HIST 3311 History of Europe Since 1919

HIST 3314	Revolutionary Europe, 1760-1815
HIST 3324	Latin America from Independence to Present
HIST 4326	The Modern Middle East
HIST 4334	The History of Russia and Eurasia from 1917 to Present
HIST 4336	Germany from 1815 to Present
HIST 4343	Modern China, 1600 to the Present
HIST 4344	Modern Japan, 1600-Present
HIST 4350B	Origins of the Modern Global Economic System
HIST 4373	Economic and Social History of the Americas

2. All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman			
First Semester		Hours	
Second Semester		Hours	
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3
MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
17		16	

Sophomore			
First Semester		Hours	
Second Semester		Hours	
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Sciences	3
POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2311	3
ECO 2314	3	Modern Language 2320	3
15		15	

Junior			
First Semester		Hours	
Second Semester		Hours	
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3
International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
15		15	

Senior			
First Semester		Hours	
Second Semester		Hours	
International Studies Focus <sup>2</sup>	12	IS 4380	3
Elective	3	International Studies Focus <sup>2</sup>	6

Elective	3
15	12

Total Hours: 120

- <sup>1</sup> The 3 hour advanced language course requirement must be completed from the same language that was completed for the additional B.A. requirements (2310 and 2320).
- <sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies Focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies) (<http://www.txstate.edu/internationalstudies>).

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (Asian Studies Focus)

Minimum required: 120 semester hours

### General Requirements

1. Choose 9 courses (27 hours) from the list of prescribed electives for the Asian Studies focus. No more than 3 courses (9 hours) can be taken from a single discipline
2. All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman			
First Semester		Hours	
Second Semester		Hours	
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3
MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
17		16	

Sophomore			
First Semester		Hours	
Second Semester		Hours	
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Sciences	3
POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2311	3
ECO 2314	3	Modern Language 2320	3
15		15	

Junior			
First Semester		Hours	
Second Semester		Hours	
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3

International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
	15		15
			<b>Senior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
International Studies Focus <sup>2</sup>	12	IS 4380	3
Elective	3	International Studies Focus <sup>2</sup>	6
		Elective	3
	15		12

Total Hours: 120

<sup>1</sup> The 3 hour advanced language course requirement must be completed in one of the main Asian Languages.

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - Asian Studies focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies) (<http://www.txstate.edu/internationalstudies>).

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (European Studies Focus)

**Minimum required: 120 semester hours**

### General Requirements

- Choose 9 courses (27 hours) from the list of prescribed electives for the European Studies focus. No more than 3 courses (9 hours) can be taken from a single discipline.
- All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman			
	First Semester Hours		Second Semester Hours
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3
MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
	17		16

### Sophomore

	First Semester Hours		Second Semester Hours
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Sciences	3

POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2311	3
ECO 2314	3	Modern Language 2320	3
	15		15

### Junior

	First Semester Hours		Second Semester Hours
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3
International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
	15		15

### Senior

	First Semester Hours		Second Semester Hours
International Studies Focus <sup>2</sup>	12	IS 4380	3
Elective	3	International Studies Focus <sup>2</sup>	6
		Elective	3
	15		12

Total Hours: 120

<sup>1</sup> The 3 hour advanced language course requirement must be completed in one of the main European languages, and should be from the same language that was completed for the additional B.A. requirements (2310 and 2320).

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - European Studies focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies) (<http://www.txstate.edu/internationalstudies>).

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (Interamerican Studies Focus)

**Minimum required: 120 semester hours**

### General Requirements

- Choose 9 courses (27 hours) from the list of prescribed electives for the Interamerican Studies focus. No more than 3 courses (9 hours) can be taken from a single discipline.
- All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman	
First Semester Hours	Second Semester Hours
ENG 1310	3 HIST 1310
POSI 2310	3 ENG 1320
Modern Language 1410	4 POSI 2320
MATH 1315	3 Modern Language 1420
GEO 1310	3 COMM 1310
US 1100	1
17	16

Sophomore	
First Semester Hours	Second Semester Hours
HIST 1320	3 ECO 2315
English Literature	3 Life and Physical Sciences
POSI 3322	3 PHIL 1305 or 1320
Modern Language 2310	3 HIST 2310 or 2311
ECO 2314	3 Modern Language 2320
15	15

Junior	
First Semester Hours	Second Semester Hours
HIST 2312 or 2320	3 English Literature
Modern Language Advanced <sup>1</sup>	3 BA Science
Life and Physical Sciences	3 GEO 3303
International Studies Focus <sup>2</sup>	3 International Studies Focus <sup>2</sup>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
15	15

Senior	
First Semester Hours	Second Semester Hours
International Studies Focus <sup>2</sup>	12 IS 4380
Elective	3 International Studies Focus <sup>2</sup>
	Elective
	3
15	12

Total Hours: 120

<sup>1</sup> The 3 hour advanced language course requirement must be completed in French, Portuguese, or Spanish, and should be from the same language that was completed for the additional B.A. requirements (2310 and 2320).

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - Interamerican Studies focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies).

# Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (International Business Focus)

**Minimum required: 120 semester hours**  
**General Requirements**

- All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman	
First Semester Hours	Second Semester Hours
ENG 1310	3 HIST 1310
POSI 2310	3 ENG 1320
Modern Language 1410	4 POSI 2320
MATH 1315	3 Modern Language 1420
GEO 1310	3 COMM 1310
US 1100	1
17	16

Sophomore	
First Semester Hours	Second Semester Hours
HIST 1320	3 ECO 2315
English Literature	3 Life and Physical Sciences
POSI 3322	3 PHIL 1305 or 1320
Modern Language 2310	3 HIST 2310 or 2320
ECO 2314	3 Modern Language 2320
15	15

Junior	
First Semester Hours	Second Semester Hours
HIST 2312 or 2320	3 English Literature
Modern Language Advanced <sup>1</sup>	3 BA Science
Life and Physical Sciences	3 GEO 3303
International Studies Focus <sup>2</sup>	3 International Studies Focus <sup>2</sup>
Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
15	15

Senior	
First Semester Hours	Second Semester Hours
International Studies Focus <sup>2</sup>	12 IS 4380
Elective	3 International Studies Focus <sup>2</sup>
	Elective
	3
15	12

Senior	
First Semester Hours	Second Semester Hours
International Studies Focus <sup>2</sup>	12 IS 4380
Elective	3 International Studies Focus <sup>2</sup>
	Elective
	3
15	12

Total Hours: 120



<sup>1</sup> The 3 hour advanced language course requirement must be completed from the same language that was completed for the additional B.A. requirements (2310 and 2320).

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - International Business focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies).

- Focus I electives: Choose 5 courses (15 hours) from the list of prescribed electives for the International Business focus I. No more than 3 courses (9 hours) can be taken from a single discipline. NOTE: No more than 30 hours of coursework offered by the McCoy College of Business Administration may be applied to this degree. This includes courses taken to fulfill the IS Focus, IS Core, general education core curriculum, Liberal Arts requirements, and minor.
- Focus II electives: Choose 5 courses (15 hours) from the list of prescribed electives for the International Business focus II. No more than 3 courses (9 hours) can be taken from a single discipline.

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (Middle East/African Studies Focus)

**Minimum required: 120 semester hours**

### General Requirements

1. Choose 9 courses (27 hours) from the list of prescribed electives for the Middle East/African Studies focus. No more than 3 courses (9 hours) can be taken from a single discipline.
2. All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman			
First Semester Hours		Second Semester Hours	
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3
MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
17		16	

Sophomore			
First Semester Hours		Second Semester Hours	
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Sciences	3
POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2311	3
ECO 2314	3	Modern Language 2320	3
15		15	

Junior			
First Semester Hours		Second Semester Hours	
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3
International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
15		15	

Senior			
First Semester Hours		Second Semester Hours	
International Studies Focus <sup>2</sup>	12	IS 4380	3
Elective	3	International Studies Focus <sup>2</sup>	6
		Elective	3
15		12	

Total Hours: 120

<sup>1</sup> The 3 hour advanced language course requirement must be completed from the same language that was completed for the additional B.A. requirements (2310 and 2320) and must be completed in French, Spanish, or Arabic.

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - Middle East/African Studies focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies).

## Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (Russian/East European Studies Focus)

**Minimum required: 120 semester hours**

### General Requirements

1. Choose 9 courses (27 hours); no more than 3 courses (9 hours) from the list of prescribed electives for the Russian/East European Studies focus. No more than 3 courses (9 hours) can be taken from a single discipline.
2. All students are required to complete a global academic experience that can be fulfilled by a study abroad course or the IS 4387, if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

Freshman			
First Semester Hours		Second Semester Hours	
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3

MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
	17		16

<b>Sophomore</b>			
First Semester Hours		Second Semester Hours	
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Sciences	3
POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2311	3
ECO 2314	3	Modern Language 2320	3
	15		15

<b>Junior</b>			
First Semester Hours		Second Semester Hours	
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3
International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
	15		15

<b>Senior</b>			
First Semester Hours		Second Semester Hours	
International Studies Focus <sup>2</sup>	12	IS 4380	3
Elective	3	International Studies Focus <sup>2</sup>	6
		Elective	3
	15		12

Total Hours: 120

<sup>1</sup> The 3 hour advanced language course requirement must be completed in an appropriate language and should be from the same language that was completed for the additional B.A. requirements (2310 and 2320).

<sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - Russian/East European Studies focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies).

# Bachelor of Arts in International Studies (B.A.I.S.) Major in International Studies (Travel and Tourism Focus)

**Minimum required: 120 semester hours**

## General Requirements

- Required courses:

ACC 2301	Accounting in Organizations and Society	3
GEO 3340	Political Geography	3
	6 hours advanced European or World HIST electives (one course before 1700, and one course after 1700; see Department of History Group A and B courses)	6
MGT 3303	Management of Organizations	3
MKT 3343	Principles of Marketing	3
IS 4687	International Studies Internship	6

- Choose 2 additional courses (6 hours) from the list of prescribed electives for the Travel and Tourism focus.
- It is strongly recommended that students also complete ENG 2330 and ENG 2340 to satisfy the general education core and additional B.A. sophomore ENG Literature requirements.
- All students are required to complete a global academic experience that can be fulfilled by a study abroad course or an independent study/research course if it entails international work, service, or group research. Consult with the academic program coordinator in the Center for International Studies for options.

<b>Freshman</b>			
First Semester Hours		Second Semester Hours	
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Modern Language 1410	4	POSI 2320	3
MATH 1315	3	Modern Language 1420	4
GEO 1310	3	COMM 1310	3
US 1100	1		
	17		16

<b>Sophomore</b>			
First Semester Hours		Second Semester Hours	
HIST 1320	3	ECO 2315	3
English Literature	3	Life and Physical Science	3
POSI 3322	3	PHIL 1305 or 1320	3
Modern Language 2310	3	HIST 2310 or 2320	3
ECO 2314	3	Modern Language 2320	3
	15		15

<b>Junior</b>			
First Semester Hours		Second Semester Hours	
HIST 2312 or 2320	3	English Literature	3
Modern Language Advanced <sup>1</sup>	3	BA Science	3
Life and Physical Sciences	3	GEO 3303	3
International Studies Focus <sup>2</sup>	3	International Studies Focus <sup>2</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
	15		15

<b>Senior</b>			
First Semester Hours		Second Semester Hours	
International Studies Focus <sup>2</sup>	6	IS 4380	3
IS 4687	6	International Studies Focus <sup>2</sup>	9

Elective	3	
	15	12

Total Hours: 120

- <sup>1</sup> The 3 hour advanced language course requirement must be completed from the same language that was completed for the additional B.A. requirements (2310 and 2320).
- <sup>2</sup> Students are required to select courses from a list of prescribed (preapproved) electives specific to each International Studies Focus. For a complete list of course options that will satisfy the International Studies - Travel and Tourism focus, please visit the Center for International Studies website at [www.txstate.edu/internationalstudies](http://www.txstate.edu/internationalstudies) (<http://www.txstate.edu/internationalstudies>).

## Minor in International Studies

The minor requires 21 semester hours, which includes:

GEO 1310	World Geography	3
GEO 3303	Economic Geography	3
POSI 3322	Introduction to International Studies	3
Select one of the following:		3
ECO 3317	International Economics	
POSI 4326	Issues in World Politics	
POSI 4327	Theories of International Politics	
POSI 4356	International Law	
POSI 4357	International Organization	
POSI 4359	Politics of International Economic Relations	
POSI 4367	International Conflict and Security	
Advanced Electives <sup>1</sup>		9
Total Hours		21

- <sup>1</sup> The nine hours of advanced electives are to be selected from an approved list that is available in the Center for International Studies. Please contact an advisor for this list. All courses attempted toward the minor must be completed with a minimum grade of "C" or better.

## Center for Diversity and Gender Studies

Undergraduate Academic Center Room 478  
 T: 512.245.2361 F: 512.245.1414  
[www.mcgs.txstate.edu](http://www.mcgs.txstate.edu) (<http://www.mcgs.txstate.edu>)

The Center for Diversity and Gender Studies in the College of Liberal Arts administers both the Diversity Studies minor at the undergraduate level and the Women's Studies minor at the undergraduate and graduate levels. The Center helps prepare students to work and live in a pluralistic society through curricular and co-curricular activities — symposia, workshops, exhibits, theater productions, diversity reading discussions, and research projects. In addition, it assists faculty with resources and professional development activities to encourage the infusion of multiculturalism in the curriculum through a Multicultural Curriculum Transformation and Research Institute. It houses a resource area with more than 300 books, articles, and syllabi. The Center sponsors a Women and Gender Research Collaborative with its own online professional peer reviewed *Journal of Research on Women and Gender*. Through private donations, Diversity and Gender Studies offers annual scholarships

to students. The director of the Center works in collaboration with an advisory council of faculty and staff representing several Texas State colleges and departments.

Key issues for prospective minors to consider:

- Tomorrow's graduates will be entering a work force dominated by technological, service, and communication industries with an increasingly diverse workplace and clientele.
- Employer demand is increasing for diversity knowledge and skills among today's college students.
- In 2010, the Hispanic, Asian and African American population in Texas grew to approximately 53%—or the majority in the state.
- Well-rounded graduates have included in their liberal arts education a greater-knowledge of their cultural history and traditions.

## Minors

- Diversity Studies (p. 342)
- Women's Studies (p. 343)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this center include: DVST (p. 341), WS (p. 341)**

## Courses in Diversity Studies (DVST)

### DVST 3301. Introduction to Diversity Studies.

The course is a general, multi-disciplinary and comparative survey of U.S diversity issues. It highlights the traditional minorities, such as African, Latino/a American, Native, and Asian Americans, as well as European American ethnic groups. It also explores issues related to religion, age, sexual orientation, gender identity, and physical ability/disability. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

### DVST 3320. Introduction to Global Diversity Issues.

This course provides an understanding of relationship between U.S and other nations in terms of economics, politics, and culture. Students will examine how colonialism shaped developed and underdeveloped nations, investigate grassroots activism in response to globalization and will examine how policies formulation by one country has consequences for other countries  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

## Courses in Women's Studies (WS)

### WS 3376. Images of Women.

This course, one of two multidisciplinary team-taught women's studies courses, is a survey of the changing images of women in the U.S. since 1800 through the eyes of historians, writers, artists, orators, the media, and educators. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**WS 3377. Realities of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is the study of realities faced by women in the U.S. today—including biological and psychological differences in males and females, politics and the law, the work force, and the home. Gender roles in societies outside the U.S. will also be examined. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**WS 4388. Independent Research in Women's Studies.**

Independent study course open to advanced students on an individual or small group basis. The research area in Women's Studies, bibliography, and study paper outline are to be approved by the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Minor in Diversity Studies

The 18-hour minor provides for an interdisciplinary approach to Diversity Studies. It also provides conceptual frameworks for exploring new perspectives which recover the history and creative expressions previously excluded by the traditional approaches to higher education. The minor fosters students development of self, voice, and moral vision to prepare students to live and work effectively in a pluralistic society. Although not required, the minor currently offers students the option of a concentration in a special topics area. The special topics include: African American, American Indian or Latino American Studies, Latinos and the Media. Students may also explore issues related to religion, age, sexual orientation, and physical ability and disability. Using the courses available students may design a special focus based on their interest or career path.

The required core course, (3 hours) DVST 3301 offers a general, multidisciplinary and comparative survey.

The general requirement block (9 hours): This area is meant for courses that focus specially on issues related to American ethnic groups and their country of origin, women and gender issues, sexual orientation, religion, age, and ability/disability issues.

The general concepts electives block (6 hours) deals more broadly with concepts of diversity. These courses provide a theoretical framework for understanding comparative, interdisciplinary approaches to the study of diversity. Related diversity topics may be substituted here also.

**Required Course**

DVST 3301	Introduction to Diversity Studies	3
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**General Requirement Block**

Select three of the following: 9

ANTH 3314	Latin American Cultures	
ANTH 3322	Peoples and Cultures of Africa <sup>1</sup>	
ANTH 3324	Mexican American Culture	
ANTH 3332	Myths and Moundbuilders	
ANTH 3333	North American Indians	
ANTH 3345	Archaeology of Mexico	
ANTH 3350	Gender and Sexuality in Cross-cultural Perspective	
CJ 4326	Women and Criminal Justice	
ENG 3331	Literature of Black America	
ENG 3344	Chicano/a Narrative and Social History	

ENG 3388	Women and Literature	
GEO 3308	Latin America <sup>1</sup>	
GEO 3329	Geography of Texas	
GEO 3353	American Ethnic Geography	
HIST 3310	History of Europe, 1815-1919	
HIST 3311	History of Europe Since 1919	
HIST 3320	History of Mexico	
HIST 3329	Spanish Borderlands, 1521-1821	
HIST 3359	African American History	
HIST 3369Z	Immigration and Ethnicity <sup>1</sup>	
HIST 3372	Texas History: A Survey	
HIST 3369Y	Black Women and Black Protest in America	
HIST 4318J	The Arab-Israeli Wars, 1948-1996	
HIST 4325	Islamic History to 1798	
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	
HIST 4371	Introduction to American Indian History	
HIST 4372	Mexican American History	
HIST 4375B	African-American Experience in Texas	
MC 4308	Women and Minorities in the Media <sup>1</sup>	
MC 4310	International Communication	
MC 4319	Latinas/Latinos and the Media <sup>1</sup>	
MU 3375	History of Jazz	
PHIL 4372	Latin American Philosophy	
POSI 4331	Minority Politics	
REL 1300	World Religions	
SPAN 3305	Latin American Literatures I	
SPAN 3306	Latin American Literatures II	
SPAN 3371	Latin American Civilization	
SPAN 4330	The Latin American Novel <sup>1</sup>	
SPAN 4370	Hispanic Literature of the Southwest	
SOCI 3350	Men, Women, and Societies	
WS 3376	Images of Women	

**General Concepts Electives Block**

Select two of the following: 6

ANTH 3301	Principles of Cultural Anthropology	
ANTH 3309	Cultures Through Film	
ANTH 1312	Cultural Anthropology (ANTH 2351)	
ARTH 3303	Issues in Contemporary Art	
COMM 3318M	Intercultural Communication in the Americas	
COMM 3329	Intercultural Communication	
COMM 4322	Rhetoric of Protest Movements	
ENG 3345	Southwestern Studies I: Defining the Region	
ENG 3346	Southwestern Studies II: Consequences of Region	
HIST 3375A	American Labor History, 1877-1945	
HIST 3380	The Desegregation of the South from 1944-1970	
HIST 4376	The History of Texas Music	
MC 4303	International Advertising	
MKT 4310	International Marketing	
POSI 3319	Metropolitan Politics	
PSY 3334	Psychology of Human Diversity	
SOWK 4310	Diversity and Social Justice in Social Work	

SOCI 3327	Multicultural Relations	
SOCI 3366	Folkways and Folklore: An Introduction	
Total Hours		18

<sup>1</sup> Special topic courses (those offered on a selective basis) may count toward the minor with the permission of the U.S. Ethnic Studies Program Director.

## Minor in Women's Studies

The 18-hour minor offers an interdisciplinary program that concentrates on the images and realities of women. Drawing on recent scholarship on women and gender, the Women's Studies minor provides a flexible, coherent program that enables students to consider the significance of gender.

On a personal level, courses in this program enhance the human potential of both men and women, because knowledge about how societies construct gender relations can encourage students to examine their own attitudes and behavior. On an academic level, a minor in Women's Studies provides study of the ongoing scholarship about women and gender and offers students the opportunity for exciting intellectual growth. On a professional level, the minor provides a valuable specialty to prepare students for opportunities in a variety of fields, including business, counseling, education, government, health and medicine, human resources, law, politics, psychology, social work, and graduate studies. The Women's Studies minor helps students recognize their opportunities in a rapidly changing society and flexibly complements any major.

The two required core courses (6 hours) are WS 3376 and WS 3377. They examine the images of women that are prevalent in Western culture (with examples being drawn from films, literature, visual arts, and popular music) as well as those topics and issues related to the realities of women's lives.

### Required Core Courses

WS 3376	Images of Women	3
WS 3377	Realities of Women	3

### Elective Courses

Select four of the following: 12

ANTH 3324	Mexican American Culture	
ANTH 3350	Gender and Sexuality in Cross-cultural Perspective	
ANTH 3354	Latin American Gender and Sexuality	
CJ 4326	Women and Criminal Justice	
COMM 3328	Communication and Gender	
DVST 3301	Introduction to Diversity Studies	
ENG 3388	Women and Literature	
ENG 3392	Women Writers of the Middle Ages	
HIST 3369Y	Black Women and Black Protest in America	
HON 3392P	The Nature of the Human Experience: Technology & Gender in Film	
MC 4308	Women and Minorities in the Media	
PHIL 3325	Philosophy of Sex and Love	
PHIL 3333	Feminist Theory	
POSI 4330	Women in Politics	
PSY 3332	Psychology of Women	
SOCI 3350	Men, Women, and Societies	

WS 4388	Independent Research in Women's Studies	
Total Hours		18

Topics courses, offered on a selective basis, may also count toward the minor with permission from the Women's Studies Program Director.

## Center for the Study of the Southwest

Brazos Hall Room 212

T: 512.245.2224 F: 512.245.7462

[www.txstate.edu/cssw](http://www.txstate.edu/cssw) (<http://www.txstate.edu/cssw>)

The Center for the Study of the Southwest in the College of Liberal Arts, established in February 1990, has a threefold mission: curriculum development, public outreach, and research. Its 18-hour interdisciplinary minor, administered jointly with the Department of English, was approved in 1992. The Center draws faculty from varied disciplines (Art, Biology, English, Geography, History, and others); it disseminates information about its programs and research through *Southwestern American Literature*, a biannual journal devoted to the literature and culture of the Greater Southwest, and *Texas Books in Review*, a journal that monitors publications from or about Texas.

The Center for the Study of the Southwest, funded in part by grants from the National Endowment for the Humanities and the Houston Endowment, promotes the exchange of knowledge about regional issues among individuals, communities, and institutions across the region and northern Mexico. The Center encourages students, teachers, and the general public to understand the power of place to build identity, honor diversity, strengthen community, and celebrate the human spirit.

## Minor

- Southwestern Studies (p. 343)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Minor in Southwestern Studies

A minor in Southwestern Studies requires 18 semester hours:

Code	Title	Hours
<b>Interdisciplinary Core Courses</b>		
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
<b>Electives</b>		
Select 12 semester hours from the following:		12
ANTH 3314	Latin American Cultures	
ANTH 3315	Archaeology of the Southwest	
ANTH 3324	Mexican American Culture	
ANTH 3333	North American Indians	
ARTH 4303	Pre-Columbian Art	
BIO 3460	Aquatic Biology	
BIO 4410	Field Biology of Plants	
BIO 4421	Ornithology	
BIO 4422	Mammalogy	
CI 3332	Foundations of Bilingual and ESL Education	



ENG 3309	The Southwest in Film
ENG 3344	Chicano/a Narrative and Social History
ENG 4325	Literature of the Southwest
GEO 3308	Latin America
GEO 3329	Geography of Texas
HIST 3320	History of Mexico
HIST 3327	History of Mexico to 1848
HIST 3329	Spanish Borderlands, 1521-1821
HIST 3353	The Greater Southwest
HIST 3372	Texas History: A Survey
HIST 4372	Mexican American History
NHT 4301	Planning and Development of Nature and Heritage Tourism
NHT 4302	Internship in Nature and Heritage Tourism
POSI 4331	Minority Politics
POSI 4338	Government and Politics of Latin America
POSI 4358	United States-Latin American Relations
SOCI 3327	Multicultural Relations
SOCI 3366	Folkways and Folklore: An Introduction
SOWK 4310	Diversity and Social Justice in Social Work
SPAN 3305	Latin American Literatures I
SPAN 3306	Latin American Literatures II
SPAN 3371	Latin American Civilization
SPAN 4330	The Latin American Novel
SPAN 4370	Hispanic Literature of the Southwest
Total Hours	18

No more than three courses, including core courses, in a single department may count toward this minor. A course may not be used to satisfy both a major and a minor requirement. Students should check with individual departments for course prerequisites. Relevant Honors and special topics courses may be substituted with permission from the Center for the Study of the Southwest.

## Department of Anthropology

Evans Liberal Arts Building Room 266  
T: 512.245.8272 F: 512.245.8076  
[www.txstate.edu/anthropology](http://www.txstate.edu/anthropology) (<http://www.txstate.edu/anthropology>)

Anthropology is the study of human cultural and biological variation and evolution. It is a holistic discipline taking into consideration all aspects of human existence. Anthropology is divided into four major sub-fields: cultural anthropology, biological anthropology, archaeology, and linguistic anthropology. The anthropology program at Texas State offers coursework and training in each of these areas. Graduates enter a wide range of professions including foreign affairs, journalism, education, medicine and medical research, health professions, human resources, academia, criminal justice, museum science, international business, and contract archaeology.

Anthropology majors may choose from two degree plans. The Bachelor of Arts (B.A.) degree in Anthropology is designed to prepare students for professional careers or graduate study. An understanding of the world's cultural and biological diversity is especially valuable in today's global economy. The Bachelor of Science (B.S.) degree in Anthropology is specifically designed to expand the science training of students and prepare them for professional careers or graduate study.

Students pursuing either degree have the opportunity to participate in departmental field schools, archaeological excavations, and/or an internship program to support their education and career goals.

## Bachelor of Arts (B.A.)

- Major in Anthropology (p. 350)

## Bachelor of Science (B.S.)

- Major in Anthropology (p. 351)

## Minor

- Anthropology (p. 352)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Anthropology (ANTH)

### ANTH 1312. Cultural Anthropology.

In this course students examine the nature of cultural variation of populations in the present and recent past. Its subjects include social, political, economic, and ideological aspects of human cultures. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Soc & Behav Sciences Core 080|Multicultural Content  
**Grade Mode:** Standard Letter  
**TCCN:** ANTH 2351

### ANTH 2414. Biological Anthropology.

This lecture and accompanying laboratory course examine fundamental aspects of the biological nature of humans using evolutionary theory. Course content is divided into topics devoted to the process of evolution, genetics, the primate order, osteology, human evolution, and variability and adaptation  
**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required  
**Grade Mode:** Standard Letter  
**TCCN:** ANTH 2401

### ANTH 2415. Introduction to Archaeology.

This course covers the basic principles of archaeology. It includes a study of the kinds of sites; classification of stone artifacts; methods of archaeological survey and excavation; methods of dating by geological, faunal, and radiometric means; and the theoretical approach to archaeology. This course includes a two-hour weekly laboratory  
**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

### ANTH 3301. Principles of Cultural Anthropology.

This course is an ethnographically-based analysis of major theoretical positions and debates in contemporary anthropology. Prerequisites: ANTH 1312 and 60 hours of coursework. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ANTH 3302. Introduction to Linguistic Anthropology.**

This course provides an introduction to the study of linguistic anthropology. We will focus on the origin of language and its evolution and diversity, the interactions between language, culture and society, and modes of communication. This course will enhance a student's awareness of the complex interrelationships between language and other aspects of culture. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3303. Applied Cultural Anthropology.**

In this course students learn the methods applied cultural anthropologists use to address social problems such as poverty, sustainable development, conflict, climate change, community health, workplace and product design, education, and cultural heritage, as well as the value "thinking anthropologically" has for a wide range of careers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3305. Magic, Ritual and Religion.**

An examination of magic and religion in cultures of the world with an emphasis on recent works dealing with mysticism and the occult. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3306. World Prehistory.**

This course presents a survey of the prehistoric human record throughout the world. It focuses upon the achievements of early and modern humans, world colonization events, and the development of complex societies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3307. History of Evolutionary Thought.**

This course discusses the impact of evolutionary discourse within the context of its history. Students will develop a thorough understanding of evolution and its importance to anthropology, as well as to other scientific disciplines. Prerequisites: ANTH 2414 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3308. Cultural Resource Management and Archaeology.**

This course surveys Cultural Resource Management (CRM) archaeology, the conservation and investigation of archaeological remains as mandated by federal and state laws. The course covers the history of CRM and its legal and regulatory framework, organization, methods, funding, employment prospects, and ethical and practical dilemmas. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3309. Cultures Through Film.**

Through films, lectures, and discussions, students explore the various ways that ethnographic film interprets the cultural environment and social interactions of small-scale cultures around the world. We will also discuss anthropological interpretations of how historically U.S. (American) culture has dealt with concepts of the "other" and supernatural phenomena through film. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3311. Disease and Society.**

In this course students examine infectious diseases and the effect they have on human societies. The course is organized into case studies of specific infectious diseases, which focus on the biology and epidemiology of a disease as well its social impact

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3313. Aztec: Native Americans and Empire.**

This course presents an understanding of Aztec culture through archaeology, the interpretation of art, religion, and architecture, and the formation of a highly specialized and stratified society with an imperial administration. The course will emphasize an intellectual and religious outlook in intimate contact with the earth, sky, and the seasons

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3314. Latin American Cultures.**

This course examines different aspects of Latin American indigenous cultures from a variety of theoretical perspectives in anthropology. Emphasis is on the Maya, and different theoretical perspectives provide different interpretations of data. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3315. Archaeology of the Southwest.**

An examination of the prehistory and early cultures of the Greater Southwest from the first arrival of humans as early as 20,000 years ago to the coming of the Spaniards in the 16th century. The course covers several mammoth kill sites at the end of the Pleistocene; the emergence of Archaic hunters and gatherers and the appearance of agriculture about two thousand years ago, leading to the three major cultures in the southwest-the Mogollon, the Hohokam and the Anasazi, the last in multistoried pueblos and cliff dwellings. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3316. The Origin and Evolution of Human Behavior.**

This course presents our current understanding of Old World Paleolithic Archaeology. The origin and evolution of hominid behavior, the initial colonization of the Old World, and the development of modern human behavior will be discussed for each continent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3317. Rock Art Field Methods.**

This course will train students in rock art field methods. They will gain first-hand experience recording rock art sites through photography, field sketches, mapping, and written inventories. Students will generate a visual and written description of the art, which they will use to infer and explain past human behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3318. Texas Archaeology.**

This course will present our current understanding of Texas archaeology. The environmental and social contexts of prehistoric, protohistoric, and historic records of Native American and Spanish occupations in Texas are discussed. Prerequisite: ANTH 2415. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3319. Human Growth and Development.**

In this course students focus on the life history of humans from birth to death, and consider how humans grow and change both biologically and psychologically over the course of their lives. Topics include life stages, sex differences, nutrition, environment, growth disorders, and the evolution of human growth

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3322. Peoples and Cultures of Africa.**

This course is a general introduction to the contemporary peoples and cultures of Africa. Students will examine the social structure, economy, political systems, and religions of African cultures in the context of the radical economic and social transformations affecting the area. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3324. Mexican American Culture.**

An examination of the history and culture of Mexican Americans with an emphasis on the analytical concepts of culture, race, class, and gender. Lectures, films, and selected readings (including chapters from anthropological and literary books and journals) will be used to portray the diversity of Mexican American experiences in this country. Topics include religion, politics, economy, identity politics, popular culture, sexuality, marriage and the family. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3325. Medical Anthropology.**

This course focuses on how illness identities are culturally constructed, how adaptations or maladaptations to local environments affect health, how political and economic forces influence health and health behaviors, and how the practice of medical anthropology can contribute to solving urgent health issues around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3326. Maya History and Society.**

The purpose of this course is to develop a knowledge of Maya Civilization from historical as well as anthropological perspectives. Students will study the features of the Classic Period Maya and modern Maya societies including the religious and economic life styles. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3327. Anthropology of Religion and Fundamentalism.**

This course provides students with current and historical approaches to the anthropology of religion with a particular emphasis on fundamentalism. It focuses on the development of religious fundamentalism in different cultural contexts, geopolitical situations, and religious traditions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3328. Primate Cognition.**

In this course students investigate historical and current views regarding the cognitive capacities of nonhuman primates, and the extent to which these abilities are shared with humans. Topics include social cognition, numerical cognition, problem solving, tool use, culture, communication, theory of mind, deception, selfrecognition, and imitation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3329. Comparative Juvenile Behavior.**

This course will give students a thorough understanding of the comparative method through examples from the development of juvenile animals. It will introduce students to socioecology, neurobiology, and life history markers, with information that they can apply across disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3332. Myths and Moundbuilders.**

This course presents an anthropological approach to Native Americans of the Southeastern United States, their culture and beliefs. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3333. North American Indians.**

This course will examine the prehistoric development of native, North American culture with special emphasis on art, religion, and the cultural mechanisms through which native Americans deal with non-native American contemporary social and political developments. Prerequisite: ANTH 1312. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3335. The Anthropology of Native American Belief Systems.**

In this course students use anthropological approaches to investigate past and present Native American belief systems in order to determine the temporal range and evolving complexity of Native American religious and ritual expression

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3336. Community Research Project.**

This course gives students the opportunity to conduct hands-on anthropological research on a variety of topics in local or other communities. Students will undertake individualized research projects designed in conjunction with the professor. Students must consult with the professor prior to enrollment to design the research project and receive approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3338. Geoarchaeology.**

This course will teach students how to interpret sediments and the nature of sediment accumulation at archeological sites. Course topics include sedimentology, natural depositional environments, weathering processes and soil development, stratigraphic analysis, and archaeological site formation processes. Prerequisite: ANTH 2415 or GEOL 1410. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3340. Human and Primate Origins.**

An examination of the long and diverse record of human and nonhuman biological adaptations as viewed from the fossil record. It examines the functional and ecological challenges that may have been responsible for the path of human development

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3342. Primate Behavior.**

In this course, students will learn about the behavior, ecology and conservation of nonhuman primates (lemurs, lorises, monkeys, and apes)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3343. Human Variation and Adaptation.**

This course examines the physical variation observable within and between human populations. It emphasizes a functional approach whereby variation is examined in relation to biological adaptation. It explores the biological mechanisms responsible for change and evaluates the potential of biological components in human behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3345. Archaeology of Mexico.**

This course examines the development of culture from early hunters and gatherers through the appearance of agriculture to the rise of civilization. The focus of the course is on the emergence of complex society among groups such as the Olmec, Aztec, and Maya. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3347. Archaeology of North America.**

This course describes human settlement of North America from the end of the Pleistocene to European discovery. It considers early occupation of arctic, plains, and forested regions and development during archaic times of Adena, Hopewell, and Mississippian societies in the Southeast and Mogollon, Hohokam, and Anasazi in the Southwest. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3348. Rainforest Ecology.**

In this course, students will learn about the ecology and conservation of rainforest flora and fauna, with particular emphasis on primates

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3349. The Incas.**

The Incas were the largest Pre-Columbian empire in the Americas and this course will explore the origins of this civilization and how they conquered such a large area of South America. Using archaeological and historic information the class will examine various aspects of Inca society including religion, economics, and kingship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3350. Gender and Sexuality in Cross-cultural Perspective.**

This course examines historical and contemporary issues related to gender and sexuality from a global, cross-cultural perspective. It will focus on cultural constructions of gender and sexuality, including gender stratifications, biology and evolution, families and kinship, work, sex work, diverse sexualities, media representations, and domestic and sexual violence. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3354. Latin American Gender and Sexuality.**

This course examines cultural constructions of gender and sexuality among both the indigenous and immigrant populations throughout the Americas, with a special emphasis on gender inequalities in Greater Latin America. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3355. Introduction to Yucatec/Lacandon Maya.**

This course introduces students to the fundamentals of the language of the Maya Indians of southern Mexico through lecture and "hands-on" class exercises with native Maya speakers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3356. Archaeology of Andean Civilizations.**

This course examines the cultures of the Andes Region of South America with an emphasis on pre-Columbian and contemporary peoples of the area

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3360. Economic Anthropology.**

Reviews central issues in economic anthropology, using both case studies and theoretical writings. Analyzes production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure. Materials will cover huntergatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in nonindustrialized countries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ANTH 3361. Archaeological Field Methodology.**

In this course students will learn about planning, organizing, and carrying out archaeological field investigations from survey to excavation to specialized data recovery. The focus is on the research strategies, techniques and logistics necessary to design and accomplish successful field research. Prerequisite ANTH 2415. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3363. The Art and Archaeology of the Olmec.**

This course will present our current understanding of the art and archaeology of the Olmec culture, the earliest known civilization in North America. The Olmec culture is considered the influential foundation for later Mesoamerican civilizations such as the Maya and the Aztec

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3364. Biological Basis of Human Behavior.**

Students in this course evaluate studies on the biological basis of human behavior and explore the question of whether behavioral patterns are genetically fixed. It includes popular and scientific approaches to themes such as the evolution of human behavior, biology and behavior, race and racism, biological determinism, and human universals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3376A. Mixtec Codices: Prehispanic Literature of Oaxaca.**

This course surveys the dominant prehispanic cultures of Oaxaca, the Zapotec and Mixtec Indians, and focuses on the Mixtec pictogram fan-fold books called codices. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376N. Curation of Archaeological Materials.**

This course provides students with the skills to prepare archaeological materials for curation, which includes the processes and techniques used to stabilize and preserve organic and inorganic materials. This training can be used to gain certification in the field of archaeological curation. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376P. Archaeology of the Earliest Americans.**

This course focuses on the long-standing and controversial issues of when, how, and who first peopled the Americas. This is a significant aspect of human prehistory and remains unresolved. Students will use archaeological, biological, linguistic, and environmental evidence to help identify the first inhabitants of the New World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376Q. Field Methods in Forensic Anthropology.**

In this course students will learn how to locate, excavate and recover human remains, associated personal effects, and other materials in order to ensure legal credibility for all recoveries. Prerequisite: ANTH 4382

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376R. Theoretical Concepts in Archaeology.**

This course provides a broad survey of theory in archaeology as it is practiced throughout the world. It includes both historical perspectives and contemporary usage. ANTH 2415 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376S. Theory in Linguistic Anthropology.**

In this course students will learn about the major theories of linguistic anthropology through reading and discussing classic and contemporary literature. Topics include language evolution, behaviorism, mentalism, structuralism, cognitive anthropology, ethnosemantics, universalism and linguistic relativism, symbolic anthropology, culture and gender, language and identity, ethnography of speaking, and language change. Prerequisites: ANTH 1312 or ANTH 3302 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376T. Scientific Diving for Resource Management.**

Underwater resource management requires certain skills for those who manage, investigate, or monitor cultural, biological, or other resources found in water. This course is intended to prepare and qualify certified divers for further research and employment opportunities in underwater resource management, which includes archaeology, environmental/ecological anthropology, and other related fields. Prerequisites: Current scuba diving certification from any nationally accredited dive certification agency and an advanced scuba diving certification is recommended.

Students must also complete standard liability and waiver forms, as well as complete a diving physical prior to any water work

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376V. Anthropology of Peace and Violence.**

The class explores anthropological perspectives on peace and violence. It focuses on understanding violent practices within both traditional and current day societies including everyday violence and warfare. It explores the contributions of social structure, gender, religion, race, and ethnicity to violence. It examines efforts to build peace and reconciliation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**ANTH 3376W. Anthropology of Disasters.**

The course examines "disasters" as socio-cultural phenomena shaped by how humans organize and build communities. It investigates how race, ethnicity, class, gender, age, and dis/ability contribute to differential impacts. It explores human experiences of disaster trauma, loss, and resilience. It shows how the discipline can help improve disaster management policies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376X. Language and Linguistics.**

This course is concerned with the theoretical and methodological study of language, what constitutes the knowledge of a language, how this language is acquired, and how it is used. Other areas of interest include the properties of human language, its representation in the mind, learnability, origin, and change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376Y. Bioarchaeology.**

Bioarchaeology is the study of human skeletal remains in relation to the archaeological record. In this course students will study theories and methods used in the analysis of human skeletal remains in bioarchaeology to reconstruct patterns of subsistence, diet, disease, demography, biological relatedness, and physical activity of past populations. Prerequisite: ANTH 3381

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376Z. Language and the Body.**

This class focuses on how language shapes our identities and deeply held beliefs about our bodies. Students will have an opportunity to engage in discourse analysis of media representations as well as collect and analyze their own conversational data using the methods of linguistic and cultural anthropology. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3380. Forensic Anthropology.**

Forensic Anthropology is the recovery and analysis of human skeletal remains for modern legal inquiry. This course is an overview of the field of Forensic Anthropology illustrated with real forensic cases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3381. Human Osteology.**

The foundation of biological anthropology is the study of the human skeleton. This is a lab-intensive course in which students will learn how to identify skeletal elements, both whole and fragmentary

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4303. Human Speech Sounds.**

This course is an introductory overview of human speech production and perception from an anthropological perspective. It describes speech anatomy and pays particular attention to the description of the acoustic and articulatory properties of speech as it occurs in real time. Students will study articulatory, acoustic, and auditory phonetics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4304. Language, Culture and Society.**

This course seeks to introduce students to the fundamentals of linguistic anthropology, and the use of linguistics in anthropological fieldwork through lecture, discussion, and "hands on" class exercises

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4309. Culture, Medicine and the Body.**

This course explores how the human body, functions of the body, and the practices of medicine and healing are situated and contextualized within cultural frameworks. Case studies cover body and health-related topics over the life course, from birth to death. Prerequisite: ANTH 1312 or ANTH 3325, or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4310. Theories and Issues in Anthropology.**

This course explores major theoretical and historical developments in anthropology, highlighting the discipline's unique four-field perspective that includes archaeology, biological and cultural anthropology, and anthropological linguistics. Topics stress the importance of anthropological thought in key scientific discoveries and cultural debates. Prerequisites: ANTH 1312 and 60 hours of coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4315. Archaeological Artifact Identification and Analysis.**

This course will train students to describe and analyze artifacts commonly recovered from archaeological sites. Current theories covering the production and analysis of chipped and ground stone tools, ceramics, bone and other materials will be presented, and scientific analytical methods discussed. Prerequisites: ANTH 2415 and one additional archaeology course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4320. Rise of Civilization.**

This course consists of a definition of civilization and its components, its geographic setting, and the roles of religion, art, and the institution of the "Divine King" in the development of dynamic state societies in Egypt, Sumeria, the Indus Valley, and China in the Old World and that of the Olmec in Mexico and Chavin in Peru. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4360. Directed Study.**

A one-semester course of independent reading, tutorial sessions, and individual research projects. Open to superior students by invitation of the professor and with the consent of the chair of the department. May be repeated for credit with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ANTH 4361. Field Methods in Cultural Anthropology.**

This course teaches students how to conduct field research in cultural anthropology. Topics include research ethics, problem formulation, participant observation, interviewing, and other techniques for data collection and analysis. Students will conduct their own field research project under the instructor's supervision. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4363. Methods in Primate Research.**

In this course, students will learn about the methods used to study primates in captive and field settings

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ANTH 4381. Paleopathology.**

This course focuses on the study of diseases and maladies of ancient populations, and will survey the range of pathology on human skeletons from trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis, and tumors. Prerequisite: ANTH 3381. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4382. Methods in Skeletal Biology.**

This course is for students who wish to advance their osteological skills. Students will learn how to identify isolated and fragmentary skeletal remains to estimate age, sex, ancestry, stature, and health of an individual in past and present contexts. Prerequisite: ANTH 3381

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4390. Internship in Anthropology.**

This course provides students with professional development through work or research-related experience. It includes a 250-hour internship and written report. Prerequisites: Anthropology major, junior or senior standing, ANTH 1312, ANTH 2414, ANTH 2415, and a minimum 2.5 GPA in Anthropology. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4630. Archaeological Field School.**

This course is designed to train students in the skills and techniques of modern archaeological survey and excavation of prehistoric sites. May be repeated for credit, but only six hours may be applied toward the major

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

# Bachelor of Arts (B.A.) Major in Anthropology

## Minimum required: 120 semester hours

### General Requirements

- A major in anthropology requires 32 semester hours of which 18 hours must be advanced courses.
- Majors must select a minor from the approved list of minors in the degrees and programs section of this catalog.
- Majors are required to complete:
 

ANTH 1312	Cultural Anthropology	3
ANTH 2414	Biological Anthropology	4
ANTH 2415	Introduction to Archaeology	4
Select one of the following theory-based courses:		3
ANTH 3301	Principles of Cultural Anthropology	
ANTH 3307	History of Evolutionary Thought	
ANTH 3376R	Theoretical Concepts in Archaeology	
ANTH 3376S	Theory in Linguistic Anthropology	
ANTH 4310	Theories and Issues in Anthropology	
- Majors are required to achieve the following minimum grade point averages for graduation: Texas State GPA 2.00, major GPA 2.50, and minor GPA 2.00.
- Nine hours of writing intensive (WI) courses are required for graduation, which can be completed by courses in the major, minor, or general education core curriculum (not including ENG 1310, ENG 1320).
- All students must complete a minimum of 36 advanced hours (3000 or 4000 level courses) as part of their degree.
- The Social and Behavioral Sciences component of the general education core curriculum cannot be satisfied by the completion of ANTH 1312; majors must select an additional social science course from:
 

ECO 2301	Principles of Economics	3
ECO 2314	Principles of Microeconomics	3
GEO 1310	World Geography	3
PSY 1300	Introduction to Psychology	3
SOCI 1310	Introduction to Sociology	3
- Majors must complete 6 hours of the same foreign language (2310 and 2320). Most students complete 1410 and 1420 as prerequisites before attempting 2310.
- Majors may not receive more than six hours of credit in ANTH 4630 to satisfy Anthropology major requirements.
- The minimum number of hours required for a degree is 120. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the 120 and/or 36 advanced total hours required for a degree.

**Freshman**

	First Semester Hours	Second Semester Hours	
ANTH 1312	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
POSI 2310	3	Modern Language 1420	4
Modern Language 1410	4	Life and Physical Sciences	3

US 1100	1	
	14	13

**Sophomore**

First Semester Hours		Second Semester Hours
ANTH 2414 <sup>1</sup>	4	ANTH 2415 <sup>1</sup> 4
HIST 1320	3	ANTH adv electives 3
Life and Physical Sciences	3	POSI 2320 3
Modern Language 2310	3	Select one of the following: 3
COMM 1310	3	MATH 1312
		MATH 1315
		MATH 1316
		MATH 1317
		MATH 1319
		MATH 1329
		MATH 2321
		MATH 2417
		MATH 2471
		Modern Language 2320 3
	16	16

**Junior**

First Semester Hours		Second Semester Hours
ANTH adv electives	3	ANTH adv electives 3
Select one of the following:	3	B.A. Science <sup>2</sup> 3
ENG 2310		Select one of the following: 3
ENG 2320		ART 2313
ENG 2330		DAN 2313
ENG 2340		MU 2313
ENG 2359		TH 2313
ENG 2360		Select one of the following: 3
PHIL 1305 or 1320	3	ECO 2301
Minor	6	ECO 2314
		GEO 1310
		PSY 1300
		SOCI 1310
		Minor 3
	15	15

**Senior**

First Semester Hours		Second Semester Hours
ANTH advanced electives	3	ANTH advanced electives 6
Select one of the following:	3	Minor 6
ENG 2310		Electives (as needed) 4
ENG 2320		
ENG 2330		
ENG 2340		
ENG 2359		
ENG 2360		
Electives	6	
Minor	3	
	15	16

Total Hours: 120

<sup>1</sup> Students who complete a four-hour biological anthropology and/or archeology course at another institution may have course(s) evaluated by the Chair of the Department to determine credit for ANTH 2414 and/or ANTH 2415 can be assigned.

<sup>2</sup> Majors must complete an additional science for the B.A. degree. This course is in addition to the general education core curriculum Life and Physical Sciences component.

## Bachelor of Science (B.S.) Major in Anthropology

### Minimum required: 120 semester hours General Requirements

1. A major in anthropology consists of 35 semester hours, 18 of which must be at the advanced level.

2. Majors must select a minor from the following list of lab-based science minors: biology, chemistry, physics, geology, geography, computer science, or mathematics.

3. Majors are required to complete:

ANTH 1312	Cultural Anthropology	3
ANTH 2414	Biological Anthropology	4
ANTH 2415	Introduction to Archaeology	4

Select one of the following theory-based courses: 3

ANTH 3301	Principles of Cultural Anthropology	
ANTH 3307	History of Evolutionary Thought	
ANTH 3376R	Theoretical Concepts in Archaeology	
ANTH 3376S	Theory in Linguistic Anthropology	
ANTH 4310	Theories and Issues in Anthropology	

4. 12 hours of writing intensive (WI) courses are required for graduation, which can be completed by courses in the major, minor, or general education core curriculum (not including ENG 1310, ENG 1320).

5. All students must complete a minimum of 36 advanced hours (3000 or 4000 level courses) as part of their degree.

6. Majors are required to complete 6 hours of Anthropology techniques courses to be selected from:

ANTH 3317	Rock Art Field Methods	3
ANTH 3376N	Curation of Archaeological Materials	3
ANTH 3376Q	Field Methods in Forensic Anthropology	3
ANTH 4363	Methods in Primate Research	3
ANTH 4361	Field Methods in Cultural Anthropology	3
ANTH 4382	Methods in Skeletal Biology	3
ANTH 4390	Internship in Anthropology	3
ANTH 4630	Archaeological Field School	6

7. Majors may not receive more than six hours of credit for ANTH 4630 to satisfy Anthropology major requirements.

8. Majors are required to achieve the following minimum grade point averages for graduation: Texas State GPA 2.00, major GPA 2.50, and minor GPA 2.00.

9. The social and behavioral sciences component of the general education core curriculum cannot be satisfied by the completion of ANTH 1312; majors must select an additional social science course from:

ECO 2301	Principles of Economics	3
ECO 2314	Principles of Microeconomics	3

GEO 1310	World Geography	3
PSY 1300	Introduction to Psychology	3
SOCI 1310	Introduction to Sociology	3

10. Majors must complete 8 hours of the same foreign language (1410 and 1420) at the college level.

11. Majors must complete a statistics course from:

CJ 3347	Statistics For Criminal Justice	3
GEO 3301	Research Methods in Geography	3
PSY 2301	Introduction to Statistics	3
SOCI 3307	Statistics for the Behavioral Sciences	3

<b>Freshman</b>			
First Semester Hours		Second Semester Hours	
ANTH 1312	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
POSI 2310	3	BIO 1320 or 1330 <i>and</i> 1130 (if Biology major)	3-4
US 1100	1	Modern Language 1420	4
Modern Language 1410	4		
14		13	

<b>Sophomore</b>			
First Semester Hours		Second Semester Hours	
ANTH 2414 <sup>1</sup>	4	ANTH 2415 <sup>1</sup>	4
Select one of the following:	3	POSI 2320	3
ENG 2310		COMM 1310	3
ENG 2320		Select one of the following:	3
ENG 2330		ECO 2301	
ENG 2340		ECO 2314	
ENG 2359		GEO 1310	
ENG 2360		PSY 1300	
Select one of the following:	3-4	SOCI 1310	
MATH 1312		PHIL 1305 or 1320	3
MATH 1315			
MATH 1317			
MATH 1329			
MATH 2321			
MATH 2417			
MATH 2471			
BIO 1421 or 1331 <i>and</i> 1131 (if Biology minor)	4		
HIST 1320	3		
17		16	

<b>Junior</b>			
First Semester Hours		Second Semester Hours	
ANTH advanced electives	6	ANTH advanced electives	3
Select one of the following:	3	Select one of the following:	3
CJ 3347		ANTH 3317	
GEO 3301		ANTH 3376N	
PSY 2301		ANTH 3376Q	
SOCI 3307		ANTH 4363	
Minor	3	ANTH 4361	
PHIL 4355 or ENG 3303	3	ANTH 4382	

	ANTH 4390	
	ANTH 4630 <sup>2</sup>	
	Select one of the following:	3
	ART 2313	
	DAN 2313	
	MU 2313	
	TH 2313	
	Minor	6
	15	15

First Semester Hours		Second Semester Hours	
ANTH advanced electives	3	ANTH advanced electives	6
Select one of the following:	3	Minor	3
ANTH 3301		Electives (as needed)	4-6
ANTH 3307			
ANTH 3376R			
ANTH 3376S			
ANTH 4310			
Select one of the following:	3		
ANTH 3317			
ANTH 3376N			
ANTH 3376Q			
ANTH 4363			
ANTH 4361			
ANTH 4382			
ANTH 4390			
ANTH 4630 <sup>2</sup>			
Minor	6		
15		15	

Total Hours: 120

<sup>1</sup> Students who complete four-hour introductory biological anthropology and/or archeology course at another institution may have course(s) evaluated by the Chair of the Department to determine if credit for ANTH 2414 and/or ANTH 2415 can be assigned.

<sup>2</sup> B.S. students are required to take 6 total hours of techniques courses.

## Minor in Anthropology

A minor in Anthropology requires 20 semester hours including:

ANTH 1312	Cultural Anthropology	3
ANTH 2414	Biological Anthropology	4
ANTH 2415	Introduction to Archaeology	4
Advanced ANTH electives		9
Total Hours		20

## Department of English

Flowers Hall Room 365  
 T: 512.245.2163 F: 512.245.8546  
[www.english.txstate.edu](http://www.english.txstate.edu) (<http://www.english.txstate.edu>)

Faculty in the Department of English teach, conduct research in, and advance the discipline of English Studies, including rhetoric and composition, creative writing, technical communication, film and media studies, literature and language. They prepare undergraduate students to pursue further education and/or careers; to think, write, and speak clearly; to produce authoritative scholarship and inspiring creative work; to read with pleasure, skill, and understanding; and to appreciate the power and subtlety of discourse in various media.

While gaining a broad liberal education, English majors also learn practical skills that provide a base for almost any career. Graduates traditionally enter the fields of education, journalism, publishing, or communications. They also work for computer, engineering, and public relations firms or pursue careers in politics and government. An English background provides excellent training for law school and other graduate programs.

## Bachelor of Arts (B.A.)

- Major in English (p. 358)
- Major in English (Single Field Teacher Certification in English Language Arts and Reading, Grades 7-12) (p. 363)
- Major in English (Two Fields Teacher Certification in English Language Arts and Reading, Grades 7-12) (p. 364)
- Major in English (Creative Writing Emphasis) (p. 359)
- Major in English (Film Emphasis) (p. 361)
- Major in English (Writing and Rhetoric Emphasis) (p. 366)

## Minor

- English (p. 368)
- Media Studies (p. 368)
- Medieval and Renaissance Studies (p. 369)
- Southwestern Studies (p. 369)
- Writing (p. 370)
- Second Teaching Field in English (Grades 7-12) (p. 370)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## English (ENG)

Requirements in first-year English must be completed before a student takes any other English course.

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### ENG 1300. Developmental Writing.

Basic composition skills. For students who have not satisfied TSIP requirements or for those who need developmental work before taking English 1310. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial

**Grade Mode:** Developmental

### ENG 1310. College Writing I.

Expository writing as a means of exploring and shaping ideas. Emphasis on critical reading and the improvement of essays through revision

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010

**Grade Mode:** Standard Letter

**TCCN:** ENGL 1301

### ENG 1320. College Writing II.

Continuation of English 1310. Expository writing as a means of analyzing and understanding texts. Research paper required. Requirements in sophomore English must be completed before a student takes any advanced work in English

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010

**Grade Mode:** Standard Letter

**TCCN:** ENGL 1302

### ENG 2310. British Literature before 1785.

Representative authors and works of British literature from the beginnings through the Neoclassical Period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2322

### ENG 2320. British Literature since 1785.

Representative authors and works of British literature from the Romantic Period to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2323

### ENG 2330. World Literature before 1600.

Representative authors and works of literature from the ancient world to the early modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2332

### ENG 2340. World Literature since 1600.

Representative authors and works of literature from the modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2333

### ENG 2359. US Literature before 1865.

Course surveys representative authors and works of US literature from the beginnings to the Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2327



**ENG 2360. US Literature since 1865.**

Course surveys representative authors and works of US literature from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2328

**ENG 3301. Critical Theory and Practice for English Majors.**

Course introduces the critical theories underpinning rhetorical and literary analysis within various branches of English Studies and develops the skills of reading, writing, and research. Required for majors and open to minors; must be taken in the first semester of upper division classes. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3302. Film and Video Theory and Production.**

The study of film and narrative theory combined with the practice of videography and video editing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3303. Technical Writing.**

The study and practice of expository writing in technical and scientific professions. Emphasis on planning, writing, revising, editing, and proofreading proposals, reports, and other forms of professional communication for a variety of audiences. Computer technology included. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3304. Professional Writing.**

The principles of expository writing adapted for the workplace. Prepares students in non-technical fields to write documents commonly used in professional settings. Students compile a writing portfolio suitable for a job search or for application to professional school. Computer technology included. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3306. Writing for Film.**

This course is an introduction to screenwriting that combines the study of published film texts with workshop practice in writing for film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3307. Introduction to the Study of Film.**

An introduction to various theoretical approaches to the study of film and to important debates within film theory. Focus will include, but is not limited to, (1) theories of spectatorship, (2) the debate between formalism and realism, (3) psychoanalytic and feminist theories, and (4) cultural approaches to film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3308. Advanced Topics in Film.**

Course offers a focused examination of film as text, with an emphasis on critical, theoretical, cultural, historical, and stylistic aspects. Topics may include history of classical Hollywood cinema; silent film; world, European, or national cinemas; or the documentary. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3309. The Southwest in Film.**

A survey of films of the Southwest, emphasizing the history and cultural diversity of the region as represented on screen. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3311. Practices in Writing and Rhetoric.**

Study and practice of advanced expository writing, with focus on achieving clarity and readability. Recent emphases have included The Essay, Nature Writing, Argument, Writing for the Government, Online Communication. May be repeated once for credit when emphasis varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3312. Internship in English Studies.**

Course offers a supervised work experience related to students' career interests. Junior and senior majors are eligible with permission of the Director of Internships. Prerequisites vary with the internship and will be determined by the Director in consultation with faculty

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 3313. Software Documentation for Computer Science Majors.**

A companion to CS 3398, covering the composition techniques, including planning, organization, revision, standard language use, and audience identification problems necessary for producing the required documents and reference manuals for software documentation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3315. Introduction to Creative Writing.**

A critical seminar for writers of fiction, poetry, and articles. Creativity, criticism, and revision are emphasized. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3316. Film Studies.**

Comparative study of films and/or novels adapted to films. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3318. Approaches to Writing and Rhetoric.**

This course focuses on approaches central to the study and practice of writing and rhetoric. Emphases vary but might include Composition Theory, Theories of Technical Communication, Chicano/a Rhetorics, Literacy Studies. Repeatable with different emphases for up to 9 hours of English credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3319. The Development of English.**

Origin and growth of the English language with particular attention to phonological, morphological, and grammatical changes; history of dialects, spelling, and dictionaries; sources of vocabulary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3320. Theory and Criticism.**

A study of theoretical and critical approaches, from Aristotle to the present, applied to literary and visual texts. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3321. The Short Story.**

The short story throughout the world since Poe and Gogol. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3322. The European Novel.**

Major continental novelists from Cervantes to the present, read in translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3323. Modern Poetry.**

Modern poetry in English and English translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3325. Russian Literature in Translation.**

An examination of major 19th and 20th century works of Russian literature, in translation, from three points of view: their literary value (use of language, style, characterization, theme, structure, techniques); their relation to and influence on European literature; and their illumination of Russian culture and history. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3326. American Drama on Film.**

Masterpieces of American drama and the films which have been made from them

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3327. Types of World Drama in English.**

Examples of world drama and film adaptations from Aeschylus to Ibsen. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3328. Types of World Drama in English (Modern).**

Significant examples of world drama in English from Ibsen to O'Neill, Williams, and Miller. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3329. Mythology.**

Study of myths in ancient cultures, mythic patterns in modern literature, and Hollywood as mythmaker. Repeatable once, in special situations, when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3331. Literature of Black America.**

African-American poetry, drama, and fiction. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3333. Early US Literature.**

Course surveys US literature from its colonial beginnings to 1865. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3335. US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism.**

Course surveys US literature from the Civil War to 1930. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3336. US Literature, 1930 to the Present: From Modernism to Contemporary Forms.**

Course surveys US literature from 1930 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3338. The American Novel.**

A study of the novels and pertinent criticism from the beginnings in America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3340. Special Topics in Language and Literature.**

A study of the novels and pertinent criticism from the beginnings in America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3341. Studies in World Literature.**

Selections from ancient and modern literature in western and/or non-western cultures. Repeatable once, in special situations, when topic varies. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3342. Editing.**

A study of editing, to include instruction in making editorial changes, preparing MSS for typesetter, marking galley and page proof; fundamentals of layout and design (typeface, paper, headlines, etc.); problems and possibilities in desktop publishing; and the current status of electronic publications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3343. The Interdisciplinary Approach to Literature.**

The study of a single author, e.g. Saul Bellow, Charles Dickens, Flannery O'Connor, or Virginia Woolf, from an interdisciplinary perspective.

Repeatable once, in special situations, when topic varies. (WI) 3344 Chicano/a Narrative and Social History. (3-0) A survey of narrative

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3344. Chicano/a Narrative and Social History.**

A survey of narrative written by U.S. citizens of Mexican descent. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3345. Southwestern Studies I: Defining the Region.**

The first of two courses in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest that emphasizes regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy and politics. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3346. Southwestern Studies II: Consequences of Region.**

The second of a two-course sequence in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest, emphasizing regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy, politics, popular culture, religion, social science, and technology. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3347. American Poetry.**

Study of American poetry from its beginnings to present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3348. Creative Writing: Fiction.**

A seminar for writers of fiction, with emphasis on creativity, criticism, and revision. Prerequisite: ENG 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3349. Creative Writing: Poetry.**

A seminar for writers of poetry, with emphasis on creativity, criticism, and revision. Prerequisite: ENG 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3350. Medieval European Literature.**

Studies of Medieval contexts, genres, and writings across Europe. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3351. Anglo-Saxon Language, Literature, and Culture.**

An introduction to Old English life and writings from early culture through Beowulf (texts in modern translation). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3352. Medieval English Literature.**

Studies of important non-Chaucerian writings in the Middle Ages, some in modern translations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3353. British Poetry and Prose of the Sixteenth Century.**

Major poets and prose writers from More to Spenser. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3354. Shakespeare.**

Selected plays from the earliest through Hamlet. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3356. British Poetry and Prose of the Seventeenth Century.**

Prose and poetry from Donne and Bacon to Milton and Dryden. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3357. British Literature of the Restoration and Augustan Periods, 1660-1750.**

Course explores development of classicism through Pope and Swift. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3359. British Literature, 1750-1800.**

Course explores the decline of classicism and the Romantic beginning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3362. The British Romantics.**

Course explores British poetry and prose of the Romantic Age. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3365. Victorian Literature.**

Developments in Victorian poetry and prose as these apply to the student's cultural background. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3368. The British Novel.**

Course explores British prose fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3370. Twentieth-Century British Literature.**

Selected poetry, fiction, and drama since 1900. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3385. Children's Literature.**

A survey of traditional and contemporary literature for children with attention to literary history, aesthetic qualities, and critical approaches. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3386. Adolescent Literature.**

A survey designed to provide a critical philosophy and working repertoire of literature for adolescents. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3388. Women and Literature.**

A survey of women's writing in English, in various genres, over a period of some 600 years (14th century to the present). (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3389. The Discipline of English.**

The nature of English studies as a formal field, its components and their relationships. Open only to candidates with 90 semester credit hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3390. Problems in Language and Literature.**

Independent study with individualized reading list, research project, and tutorial sessions, focused on a special problem in language and/or literature. May be taken only with permission from the Chair of the Department of English, the Director of Advanced Studies, and the assigned professor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3392. Women Writers of the Middle Ages.**

Religious and secular writings by women from the early Church through the 15th century. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3393. Introduction to Canadian Literature.**

An introduction to Canadian literature with discussion of aesthetic, cultural, and political issues surrounding it. Texts will be Anglophone and Francophone in translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 4310. Modern English Syntax.**

A study of English syntax as described by traditional, structural, and transformational grammarians, with major emphasis on transformational generative syntax

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 4323. Studies in Autobiography and Biography.**

Selected works in autobiography and biography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 4325. Literature of the Southwest.**

The literature of Texas and the surrounding territory; various types of non-fiction prose, fiction, and poetry. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 4334. US Romanticism.**

Course explores the US Romantic movement of the 19th century, with consideration of important authors, intellectual backgrounds, and literary relationships. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 4348. Senior Seminar in Fiction Writing.**

Workshop in writing fiction and evaluating manuscripts. Students produce portfolio of creative work. Prerequisite: ENG 3348. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter



**ENG 4349. Senior Seminar in Poetry Writing.**

Workshop in writing poetry and evaluating manuscripts. Students produce portfolio of creative work. Prerequisite: ENG 3349. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4350. Senior Seminar in Film.**

Course integrates perspectives from English film and media studies, including film criticism, history, theory, screenwriting, and practical video skills. Each student will choose a focus, and all students will critique scholarly research, screenplays, and video projects that demonstrate concepts learned. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4351. Chaucer and His Time.**

The works of Chaucer and their significance in an important literary and social era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4355. The Later Shakespeare.**

The problem comedies, through the tragedies, to the plays of the final years; emphasis on reading in depth the plays, significant critical materials, and selected plays by Shakespeare’s contemporaries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4358. Milton.**

Milton’s longer poems and most important prose writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4385. Advanced Studies in Children’s or Adolescent Literature.**

This course studies children’s or adolescent literature. Possible topics include a historical period, a geographical area, a genre, a single author, or a theoretical approach, with attention to developing critical and research skills. Repeatable with different emphases for up to six hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

# Bachelor of Arts (B.A.) Major in English

**Minimum required: 120 semester hours**

## General Requirements

1. Major requires 36 hours of English.
2. Majors must satisfy general education core curriculum and B.A. degree requirements.
3. Majors must complete an approved minor.
4. The number of free electives a student will complete depends on the number of hours a student may need to achieve to the 120 and/or the 36 advanced total hours required.

5. ENG 1310 and ENG 1320 are prerequisites to all other English courses.

		<b>Freshman</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	Modern Language 1420	4
Modern Language 1410	4	Life and Physical Sciences	3
Life and Physical Sciences	3	POSI 2310	3
<hr/>			
14		16	

		<b>Sophomore</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
Select one of the following: <sup>1</sup>	3	POSI 2320	3
ENG 2310 <sup>2</sup>		Select one of the following: <sup>1</sup>	3
ENG 2320		ENG 2310 <sup>2</sup>	
ENG 2330 <sup>2</sup>		ENG 2320	
ENG 2340		ENG 2330 <sup>2</sup>	
ENG 2359 <sup>2</sup>		ENG 2340	
ENG 2360		ENG 2359 <sup>2</sup>	
HIST 1320	3	ENG 2360	
MATH 1315 (or higher)	3	B.A. Science	3
Modern Language 2310	3	Social and Behavioral Sciences	3
PHIL 1305 or 1320	3	Modern Language 2320	3
<hr/>		Minor	
15		18	

		<b>Junior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 3301 <sup>3</sup>	3	ENG, advanced	6
Select one of the following:	3	Electives (as needed)	6
ART 2313		Minor	3
DAN 2313			
MU 2313			
TH 2313			
Minor	6		
<hr/>			
12		15	

		<b>Senior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG, advanced	6	ENG, advanced	9
Electives (as needed)	6	Minor	6
Minor	3		
<hr/>			
15		15	

Total Hours: 120

<sup>1</sup> Students who earn a grade of “B” or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.  
<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.  
<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.



**ENG, Advanced**

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take at least one advanced course from each of the four groups listed below. They also select nine hours of electives from one or more groups. In selecting from groups or in choosing electives, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

**Group A - British Literature**

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

**Group B - American Literature**

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

**Group C - World Literature**

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3

ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

**Group D - Forms, Language, and Writing**

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Bachelor of Arts (B.A.) Major in English (Creative Writing Emphasis)

**Minimum required: 120 semester hours**

**General Requirements**

1. Major requires 36 hours of English.
2. Majors must satisfy general education core curriculum and B.A. degree requirements.
3. Majors must complete an approved minor.

4. The number of free electives a student will complete depends on the number of hours a student may need to achieve to the 120 and/or the 36 advanced total hours required.
5. ENG 1310 and ENG 1320 are prerequisites to all other English courses.

<b>Freshman</b>			
First Semester		Hours	
Second Semester		Hours	
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	Modern Language 1420	4
Modern Language 1410	4	Life and Physical Sciences	3
Life and Physical Sciences	3	POSI 2310	3
14		16	
<b>Sophomore</b>			
First Semester		Hours	
Second Semester		Hours	
Select one of the following: <sup>1</sup>	3	POSI 2320	3
ENG 2310 <sup>2</sup>		Select one of the following: <sup>1</sup>	3
ENG 2320		ENG 2310 <sup>2</sup>	
ENG 2330 <sup>2</sup>		ENG 2320	
ENG 2340		ENG 2330 <sup>2</sup>	
ENG 2359 <sup>2</sup>		ENG 2340	
ENG 2360		ENG 2359 <sup>2</sup>	
HIST 1320	3	ENG 2360	
MATH 1315 (or higher)	3	B.A. Science	3
Modern Language 2310	3	Social and Behavioral Sciences	3
PHIL 1305 or 1320	3	Modern Language 2320	3
15		15	
<b>Junior</b>			
First Semester		Hours	
Second Semester		Hours	
ENG 3301 <sup>3</sup>	3	ENG 3348 or 3349	3
Select one of the following:	3	ENG, advanced	3
ART 2313		Electives (as needed)	6
DAN 2313		Minor	3
MU 2313			
TH 2313			
ENG 3315	3		
Minor	6		
15		15	
<b>Senior</b>			
First Semester		Hours	
Second Semester		Hours	
ENG, advanced	9	ENG 4348 or 4349	3
Minor	6	Minor	6
		Electives (as needed)	6
15		15	
Total Hours: 120			

<sup>1</sup> Students who earn a grade of "B" or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.

<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.

### ENG, Advanced

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take one advanced course from Groups A, B, and C, and three specified courses from Group D: ENG 3315 and either ENG 3348 and ENG 4348 (fiction track) or ENG 3349 and ENG 4349 (poetry track). They also select one three-hour elective from one or more groups. In selecting from groups or in choosing electives, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group B - American Literature

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

**Group C - World Literature**

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

**Group D - Forms, Language, and Writing**

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Bachelor of Arts (B.A.) Major in English (Film Emphasis)

**Minimum required: 120 semester hours**

### General Requirements

1. Major requires 36 hours of English.

2. Majors must satisfy general education core curriculum and B.A. degree requirements.

3. Majors must complete an approved minor.

4. The number of free electives a student will complete depends on the number of hours a student may need to achieve to the 120 and/or the 36 advanced total hours required.

5. ENG 1310 and ENG 1320 are prerequisites to all other English courses.

		Freshman	
	First Semester Hours	Second Semester Hours	Hours
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	Modern Language 1420	4
POSI 2310	3	Life and Physical Sciences	3
Modern Language 1410	4		
Life and Physical Sciences	3		
	17		13
		Sophomore	
	First Semester Hours	Second Semester Hours	Hours
Select one of the following: <sup>1</sup>	3	POSI 2320	3
ENG 2310 <sup>2</sup>		Select one of the following: <sup>1</sup>	3
ENG 2320		ENG 2310 <sup>2</sup>	
ENG 2330 <sup>2</sup>		ENG 2320	
ENG 2340		ENG 2330 <sup>2</sup>	
ENG 2359 <sup>2</sup>		ENG 2340	
ENG 2360		ENG 2359 <sup>2</sup>	
HIST 1320	3	ENG 2360	
MATH 1315 (or higher)	3	B.A. Science	3
Modern Language 2310	3	Social and Behavioral Sciences	3
PHIL 1305 or 1320	3	Modern Language 2320	3
	15		15
		Junior	
	First Semester Hours	Second Semester Hours	Hours
ENG 3301 <sup>3</sup>	3	ENG (Film Emphasis)	6
Select one of the following:	3	Electives (as needed)	3
ART 2313		Minor	6
DAN 2313			
MU 2313			
TH 2313			
Minor	3		
ENG 3307	3		
Electives (as needed)	3		
	15		15
		Senior	
	First Semester Hours	Second Semester Hours	Hours
ENG, advanced	6	ENG, advanced	6
Electives (as needed)	3	Electives (as needed)	6
Minor	6	Minor	3
	15		15

Total Hours: 120

<sup>1</sup> Students who earn a grade of “B” or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.

<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.

### ENG, Advanced

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take one advanced course from Groups A, B, and C plus nine hours of electives in film. In choosing their nine hours of electives in film, majors with the Emphasis in Film must take three hours of ENG 3307 and 6 hours from other film courses:

ENG 3302	Film and Video Theory and Production	3
ENG 3306	Writing for Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3309	The Southwest in Film	3
ENG 3316	Film Studies	3
ENG 3320	Theory and Criticism	3
ENG 4350	Senior Seminar in Film	3

Majors also select one three-hour elective from one or more groups. In selecting their advanced courses, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group B - American Literature

Code	Title	Hours
ENG 3309	The Southwest in Film	3

ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

### Group C - World Literature

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

### Group D - Forms, Language, and Writing

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3

ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Bachelor of Arts (B.A.) Major in English (Single Field Teacher Certification in English Language Arts and Reading, Grades 7-12)

**Minimum required: 126 semester hours**

### General Requirements

- Major requires 36 hours of English.
- Majors must satisfy general education core curriculum and B.A. degree requirements.
- Majors must complete an approved minor.
- Majors with teacher certification must complete the following education courses:
 

CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
- ENG 1310 and ENG 1320 are prerequisites to all other English courses.
- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman			
	First Semester	Hours	Second Semester
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	Modern Language 1420	4
POSI 2310	3	Life and Physical Sciences	3
Modern Language 1410	4	Select one of the following:	3
Life and Physical Sciences	3	ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
	17		16

Sophomore			
	First Semester	Hours	Second Semester
Select one of the following: <sup>1</sup>	3	POSI 2320	3
ENG 2310 <sup>2</sup>		Select one of the following: <sup>1</sup>	3
ENG 2320		ENG 2310 <sup>2</sup>	
ENG 2330 <sup>2</sup>		ENG 2320	

ENG 2340	3	ENG 2330 <sup>2</sup>	
ENG 2359 <sup>2</sup>		ENG 2340	
ENG 2360		ENG 2359 <sup>2</sup>	
HIST 1320	3	ENG 2360	
MATH 1315 (or higher)	3	B.A. Science	3
Modern Language 2310	3	Social and Behavioral Sciences	3
PHIL 1305 or 1320	3	Modern Language 2320	3
		ENG 3301 <sup>3</sup>	3

	15		18
			<b>Junior</b>
	First Semester	Hours	Second Semester
CI 4332	3	Minor	9
CI 3325	3	ENG, advanced	9
Minor	3		
ENG, advanced	9		
	18		18

			<b>Senior</b>
	First Semester	Hours	Second Semester
ENG 3389	3	EDST 4681	6
CI 4370	3		
CI 4343	3		
RDG 3323	3		
Minor	6		
	18		6

Total Hours: 126

<sup>1</sup> Students who earn a grade of "B" or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.

<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.

### ENG, Advanced

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take at least one advanced course from Group A and one from Group C, two courses from Group B, and two specified courses from Group D: ENG 3319 or ENG 4310, and ENG 3389. They also select a three-hour elective from one group. In selecting their advanced courses, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3



ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

**Group B - American Literature**

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

**Group C - World Literature**

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

**Group D - Forms, Language, and Writing**

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3

ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Bachelor of Arts (B.A.) Major in English (Two Fields Teacher Certification in English Language Arts and Reading, Grades 7-12)

**Minimum required: 126 semester hours**

**General Requirements**

- Major requires 36 hours of English.
- Majors must satisfy general education core curriculum and B.A. degree requirements.
- Majors must complete a second teaching field.
- Majors with teacher certification must complete the following education courses:

CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
- ENG 1310 and ENG 1320 are prerequisites to all other English courses.
- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	
First Semester Hours	Second Semester Hours
COMM 1310	3 HIST 1310
ENG 1310	3 ENG 1320
US 1100	1 Modern Language 1420
POSI 2310	3 Life and Physical Sciences
Modern Language 1410	4 Select one of the following:
Life and Physical Sciences	3 ART 2313
	DAN 2313
	MU 2313
	TH 2313
17	16

Sophomore	
First Semester Hours	Second Semester Hours
Select one of the following: <sup>1</sup>	3 POSI 2320
ENG 2310 <sup>2</sup>	Select one of the following: <sup>1</sup>
ENG 2320	ENG 2310 <sup>2</sup>
ENG 2330 <sup>2</sup>	ENG 2320
ENG 2340	ENG 2330 <sup>2</sup>
ENG 2359 <sup>2</sup>	ENG 2340
ENG 2360	ENG 2359 <sup>2</sup>
HIST 1320	3 ENG 2360
MATH 1315 (or higher)	3 B.A. Science
Modern Language 2310	3 Social and Behavioral Sciences
PHIL 1305 or 1320	3 Modern Language 2320
	ENG 3301 <sup>3</sup>
15	18

Junior	
First Semester Hours	Second Semester Hours
CI 4332	3 Minor
CI 3325	3 ENG, advanced
ENG, advanced	9
Minor	3
18	18

Senior	
First Semester Hours	Second Semester Hours
ENG 3389	3 EDST 4681
CI 4370	3
CI 4343	3
RDG 3323	3
Minor	6
18	6

Total Hours: 126

<sup>1</sup> Students who earn a grade of "B" or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.

<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.

## ENG, Advanced

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take at least one advanced course from Group A and one from Group C, two courses from Group B, and two specified courses from Group D: ENG 3319 or ENG 4310, and ENG 3389. They also select a three-hour elective from one group. In selecting their advanced courses, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

## Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

## Group B - American Literature

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

## Group C - World Literature

Code	Title	Hours
ENG 3321	The Short Story	3

ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

**Group D - Forms, Language, and Writing**

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

# Bachelor of Arts (B.A.) Major in English (Writing and Rhetoric Emphasis)

**Minimum required: 120 semester hours**

## General Requirements

1. Major requires 36 hours of English.
2. Majors must satisfy general education core curriculum and B.A. degree requirements.

3. Majors must complete an approved minor.
4. The number of free electives a student will complete depends on the number of hours a student may need to achieve to the 120 and/or the 36 advanced total hours required.
5. ENG 1310 and ENG 1320 are prerequisites to all other English courses.

				<b>Freshman</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
COMM 1310		3	HIST 1310		3
ENG 1310		3	ENG 1320		3
US 1100		1	Modern Language 1420		4
Modern Language 1410		4	Life and Physical Sciences		3
Life and Physical Sciences		3	POSI 2310		3
		14			16
				<b>Sophomore</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
Select one of the following: <sup>1</sup>		3	POSI 2320		3
ENG 2310 <sup>2</sup>			Select one of the following: <sup>1</sup>		3
ENG 2320			ENG 2310 <sup>2</sup>		
ENG 2330 <sup>2</sup>			ENG 2320		
ENG 2340			ENG 2330 <sup>2</sup>		
ENG 2359 <sup>2</sup>			ENG 2340		
ENG 2360			ENG 2359 <sup>2</sup>		
HIST 1320		3	ENG 2360		
MATH 1315 (or higher)		3	B.A. Science		3
Modern Language 2310		3	Social and Behavioral Sciences		3
PHIL 1305 or 1320		3	Modern Language 2320		3
		15			15
				<b>Junior</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
ENG 3301 <sup>3</sup>		3	ENG Writing and Rhetoric Emphasis		6
Select one of the following:		3	Electives (as needed)		3
ART 2313			Minor		6
DAN 2313					
MU 2313					
TH 2313					
Minor		3			
ENG Writing and Rhetoric Emphasis		3			
Electives (as needed)		3			
		15			15
				<b>Senior</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
ENG, advanced		6	ENG, advanced		6
Electives (as needed)		6	Electives (as needed)		3
Minor		6	Minor		3
		18			12
Total Hours: 120					

<sup>1</sup> Students who earn a grade of “B” or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the major.

<sup>2</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

<sup>3</sup> ENG 3301 is required, and majors should take it immediately after completing the sophomore literature requirement.

### ENG, Advanced

In addition to ENG 3301, majors must complete seven advanced courses. Majors must take one advanced course from Groups A, B, and C plus nine hours of electives in writing and rhetoric. In choosing their nine hours of electives in writing and rhetoric, major with the emphasis in writing and rhetoric must take three hours of theory (ENG 3318, repeatable); three hours of practice (ENG 3303, ENG 3304, ENG 3311, or ENG 3342); and three hours of theory or practice. They also select one three-hour elective from one of the groups. In selecting their advanced courses, students are encouraged to take at least two courses that center on genre, theme, or theory. One of the advanced courses must focus on the works of a single author and is recommended to be taken at the end of the major:

ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group B - American Literature

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3

ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

### Group C - World Literature

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

### Group D - Forms, Language, and Writing

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Minor in English

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
Select 6 hours of the following:		6
ENG 2310	British Literature before 1785 <sup>1</sup>	
ENG 2320	British Literature since 1785	
ENG 2330	World Literature before 1600 <sup>1</sup>	
ENG 2340	World Literature since 1600	
ENG 2359	US Literature before 1865 <sup>1</sup>	
ENG 2360	US Literature since 1865	
Select 12 hours of advanced ENG electives		12
Total Hours		24

Students who earn a grade of "B" or higher in the first sophomore course may elect to take an advanced literature course in lieu of the second sophomore course. No more than six hours of sophomore literature may count toward the minor. Minors must take advanced courses from at least two different groups (Group A-British Literature, Group B-American Literature, Group C-World Literature, or Group D-Forms, Language, and Writing) and are encouraged to complete one course that centers on genre, theme, or theory.

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3
ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

### Group B - American Literature

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3

ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

### Group C - World Literature

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

### Group D - Forms, Language, and Writing

Code	Title	Hours
ENG 3302	Film and Video Theory and Production	3
ENG 3303	Technical Writing	3
ENG 3304	Professional Writing	3
ENG 3306	Writing for Film	3
ENG 3307	Introduction to the Study of Film	3
ENG 3308	Advanced Topics in Film	3
ENG 3311	Practices in Writing and Rhetoric	3
ENG 3315	Introduction to Creative Writing	3
ENG 3316	Film Studies	3
ENG 3318	Approaches to Writing and Rhetoric	3
ENG 3319	The Development of English	3
ENG 3320	Theory and Criticism	3
ENG 3340	Special Topics in Language and Literature	3
ENG 3342	Editing	3
ENG 3343	The Interdisciplinary Approach to Literature	3
ENG 3348	Creative Writing: Fiction	3
ENG 3349	Creative Writing: Poetry	3
ENG 3389	The Discipline of English	3
ENG 4310	Modern English Syntax	3
ENG 4323	Studies in Autobiography and Biography	3
ENG 4348	Senior Seminar in Fiction Writing	3
ENG 4349	Senior Seminar in Poetry Writing	3
ENG 4350	Senior Seminar in Film	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Minor in Media Studies

MC 3319	Visual Communication	3
ENG 3307	Introduction to the Study of Film	3



Select 12 hours of the following: 12

ANTH 3309	Cultures Through Film	
ARTH 4304	Global History of Cinema	
CA 3391	Communication Skills and Techniques	
COMM 4307	Media Criticism	
ENG 3302	Film and Video Theory and Production	
ENG 3308	Advanced Topics in Film	
ENG 3309	The Southwest in Film	
ENG 3316	Film Studies	
ENG 3326	American Drama on Film	
ENG 3327	Types of World Drama in English	
ENG 3329	Mythology	
ENG 4350	Senior Seminar in Film	
FR 3350	History of European Cinema I, 1895-1960	
FR 3351	History of European Cinema II, 1960 to the Present	
FR 4350A	French Poetic Realist Cinema	
GEO 2426	Fundamentals of Geographic Information Systems	
GEO 3411	Maps and Mapmaking	
GEO 3416	Principles of Remote Sensing	
GEO 3426	Advanced GIS	
GEO 4412	Digital Remote Sensing	
GEO 4422	Web Mapping	
GER 3304C	The Many Faces of Weimar Cinema: German Expressionist Films	
MC 3355	Mass Media and Society	
MC 3375	Programming in Electronic Media	
MC 4301	Media Law and Ethics	
MC 4336B	Documentaries	
POSI 4301	Politics in Film	
SPAN 4350	Hispanic Film	
TH 3342	Television/Film Performance	
TH 4363	Directing For Film	

Total Hours 18

No more than three courses, including core courses, in a single department may count toward this minor. A course may not be used to satisfy both a major and a minor requirement. Students should check with individual departments for course prerequisites. Relevant Honors courses and special topics courses may be substituted with permission from the Director of Media Studies.

## Minor in Medieval and Renaissance Studies

ENG 2310	British Literature before 1785	3
or ENG 2330	World Literature before 1600	
HIST 2310	Western Civilization to 1715	3
or HIST 2311	History of World Civilization to the 17th Century	

Select 18 hours of the following: 18

ARTH 2301	Ancient to Medieval Art	
ARTH 2302	Renaissance to Modern Art	
ARTH 4306	Renaissance Art	
ARTH 4322	Special Problems	
DAN 4368	World Dance and Culture	

ENG 3319	The Development of English	
ENG 3350	Medieval European Literature	
ENG 3351	Anglo-Saxon Language, Literature, and Culture	
ENG 3352	Medieval English Literature	
ENG 3353	British Poetry and Prose of the Sixteenth Century	
ENG 3354	Shakespeare	
ENG 3356	British Poetry and Prose of the Seventeenth Century	
ENG 3392	Women Writers of the Middle Ages	
ENG 4351	Chaucer and His Time	
ENG 4355	The Later Shakespeare	
ENG 4358	Milton	
HIST 3312	Renaissance and Reformation	
HIST 3315	History of England to 1603	
HIST 4307	Medieval European History, 300-1400	
HIST 4317	Tudor-Stuart England, 1485-1689	
HIST 4320	Origins of Christianity	
MATH 4311	Introduction to the History of Mathematics	
MU 3315	History and Analysis of Music I	
PHIL 2311	History of Philosophy Before 1600	
POSI 3332	Ancient and Medieval Political Thought (Greeks to 1600)	
POSI 3333	Modern Political Theory (1600-1900)	
POSI 4313	Islamic Law and Politics	
SPAN 3301	Literatures of Spain I	
TECH 3322	Development of Technology	
TH 3320	History of the Theatre I	
TH 3346	Historical Costume Research	

Total Hours 24

No more than three courses, including core courses, in a single department may count toward this minor. A course may not be used to satisfy both a major and a minor requirement. Students should check with individual departments for course prerequisites. Relevant Honors courses and special topics courses may be substituted with permission from the Director of Medieval and Renaissance Studies.

## Minor in Southwestern Studies

**This minor is administered by the Center for Southwestern Studies. Please contact the center for additional information.**

A minor in Southwestern Studies requires 18 semester hours:

Code	Title	Hours
<b>Interdisciplinary Core Courses</b>		
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
<b>Electives</b>		
Select 12 semester hours from the following:		12
ANTH 3314	Latin American Cultures	
ANTH 3315	Archaeology of the Southwest	
ANTH 3324	Mexican American Culture	
ANTH 3333	North American Indians	

ARTH 4303	Pre-Columbian Art	
BIO 3460	Aquatic Biology	
BIO 4410	Field Biology of Plants	
BIO 4421	Ornithology	
BIO 4422	Mammalogy	
CI 3332	Foundations of Bilingual and ESL Education	
ENG 3309	The Southwest in Film	
ENG 3344	Chicano/a Narrative and Social History	
ENG 4325	Literature of the Southwest	
GEO 3308	Latin America	
GEO 3329	Geography of Texas	
HIST 3320	History of Mexico	
HIST 3327	History of Mexico to 1848	
HIST 3329	Spanish Borderlands, 1521-1821	
HIST 3353	The Greater Southwest	
HIST 3372	Texas History: A Survey	
HIST 4372	Mexican American History	
NHT 4301	Planning and Development of Nature and Heritage Tourism	
NHT 4302	Internship in Nature and Heritage Tourism	
POSI 4331	Minority Politics	
POSI 4338	Government and Politics of Latin America	
POSI 4358	United States-Latin American Relations	
SOCI 3327	Multicultural Relations	
SOCI 3366	Folkways and Folklore: An Introduction	
SOWK 4310	Diversity and Social Justice in Social Work	
SPAN 3305	Latin American Literatures I	
SPAN 3306	Latin American Literatures II	
SPAN 3371	Latin American Civilization	
SPAN 4330	The Latin American Novel	
SPAN 4370	Hispanic Literature of the Southwest	
Total Hours		18

No more than three courses, including core courses, in a single department may count toward this minor. A course may not be used to satisfy both a major and a minor requirement. Students should check with individual departments for course prerequisites. Relevant Honors and special topics courses may be substituted with permission from the Center for the Study of the Southwest.

## Minor in Writing

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
Select 3 hours of the following:		3
ENG 2310	British Literature before 1785	
ENG 2320	British Literature since 1785	
ENG 2330	World Literature before 1600	
ENG 2340	World Literature since 1600	
ENG 2359	US Literature before 1865	
ENG 2360	US Literature since 1865	
ENG 3311	Practices in Writing and Rhetoric	3
Select one advanced ENG literature elective		3
Select 9 hours of the following:		9

ENG 3303	Technical Writing	
ENG 3304	Professional Writing	
ENG 3315	Introduction to Creative Writing	
ENG 3342	Editing	
ENG 3348	Creative Writing: Fiction	
ENG 3349	Creative Writing: Poetry	
ENG 4348	Senior Seminar in Fiction Writing	
ENG 4349	Senior Seminar in Poetry Writing	
Total Hours		24

Students may choose an emphasis in creative writing or professional writing, or they may take courses in both types of writing. Students should check course descriptions for prerequisites to ENG 3348, ENG 3349, ENG 4348, and ENG 4349.

Students majoring in English may not minor in writing.

## Second Teaching Field in English (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in English, the requirements are:

ENG 1310	College Writing I	3
ENG 1320	College Writing II	3
ENG 3301	Critical Theory and Practice for English Majors	3
ENG 3389	The Discipline of English	3
Select two of the following:		6
ENG 2310	British Literature before 1785	
ENG 2320	British Literature since 1785	
ENG 2330	World Literature before 1600	
ENG 2340	World Literature since 1600	
ENG 2359	US Literature before 1865	
ENG 2360	US Literature since 1865	
Select three advanced hours from Group A		3
Select three advanced hours from Group B		3
Select three advanced hours from Group C		3
Select one of the following from Group D:		3
ENG 3319	The Development of English	
ENG 4310	Modern English Syntax	
Total Hours		30

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

### Group A - British Literature

Code	Title	Hours
ENG 3351	Anglo-Saxon Language, Literature, and Culture <sup>1</sup>	3
ENG 3352	Medieval English Literature <sup>1</sup>	3
ENG 3353	British Poetry and Prose of the Sixteenth Century <sup>1</sup>	3
ENG 3354	Shakespeare <sup>1</sup>	3
ENG 3356	British Poetry and Prose of the Seventeenth Century <sup>1</sup>	3
ENG 3357	British Literature of the Restoration and Augustan Periods, 1660-1750 <sup>1</sup>	3
ENG 3359	British Literature, 1750-1800 <sup>1</sup>	3

ENG 3362	The British Romantics	3
ENG 3365	Victorian Literature	3
ENG 3368	The British Novel	3
ENG 3370	Twentieth-Century British Literature	3
ENG 4351	Chaucer and His Time <sup>1</sup>	3
ENG 4355	The Later Shakespeare <sup>1</sup>	3
ENG 4358	Milton <sup>1</sup>	3

**Group B - American Literature**

Code	Title	Hours
ENG 3309	The Southwest in Film	3
ENG 3326	American Drama on Film	3
ENG 3331	Literature of Black America	3
ENG 3333	Early US Literature <sup>1</sup>	3
ENG 3335	US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism	3
ENG 3336	US Literature, 1930 to the Present: From Modernism to Contemporary Forms	3
ENG 3338	The American Novel	3
ENG 3344	Chicano/a Narrative and Social History	3
ENG 3345	Southwestern Studies I: Defining the Region	3
ENG 3346	Southwestern Studies II: Consequences of Region	3
ENG 3347	American Poetry	3
ENG 4325	Literature of the Southwest	3
ENG 4334	US Romanticism	3

**Group C - World Literature**

Code	Title	Hours
ENG 3321	The Short Story	3
ENG 3322	The European Novel	3
ENG 3323	Modern Poetry	3
ENG 3325	Russian Literature in Translation	3
ENG 3327	Types of World Drama in English <sup>1</sup>	3
ENG 3328	Types of World Drama in English (Modern)	3
ENG 3329	Mythology	3
ENG 3341	Studies in World Literature	3
ENG 3350	Medieval European Literature <sup>1</sup>	3
ENG 3385	Children's Literature	3
ENG 3386	Adolescent Literature	3
ENG 3388	Women and Literature	3
ENG 3392	Women Writers of the Middle Ages <sup>1</sup>	3
ENG 3393	Introduction to Canadian Literature	3

<sup>1</sup> Meets the requirement that majors must take at least 6 hours of Literature before 1800.

## Department of Geography

Evans Liberal Arts Building Room 139  
T: 512.245.2170 F: 512.245.8353  
www.geo.txstate.edu (<http://www.geo.txstate.edu>)

Texas State Geography is one of the largest undergraduate programs in the United States. The Journal of Geography, the Association of American Geographers, and a National Program Effectiveness Survey recognized the Department as among the best undergraduate Geography

programs in the nation. Additionally, the Department of Geography's internship program is the largest of its kind, placing students in both government agencies and private enterprises to provide students real-world experience to complement their academic program. The Department also offers highly acclaimed field experiences to places such as Big Bend National Park, the Southwestern United States, Europe and Mexico, where students gain invaluable firsthand geographical knowledge while gaining academic credit.

The undergraduate geography program offers a variety of majors of study. Students may select a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.). The degrees provide students programs and courses designed to increase their understanding of the world they live in and to help students develop analytical skills necessary to interpret and solve real-world problems. The B.A. requires a minimum of 30 semester hours of Geography while the B.S. requires a minimum of 36 hours of Geography coursework. Geography majors may include a maximum of two additional Geography courses towards their major. Geography majors are required to complete a minor and are encouraged to select a minor in consultation with an academic advisor.

## Major in Geography

The Geography major provides flexibility in designing unique programs for students with highly specialized career or graduate study objectives. Students electing to follow this major are strongly encouraged to work with a faculty member with experience in their special area of interest.

## Major in Geography with Teacher Certification in Social Studies

This degree program is designed to prepare students to teach any of the four social studies disciplines (History, Geography, Government, and Economics) at the secondary level (grades 7-12). Upon completion of the social studies curriculum and passage of the social studies TExES test, students will receive certification in social studies and eligibility to teach in any of the four disciplines. Students pursuing secondary certification with a major in Geography select a minor from the disciplines of History or Political Science. In addition, students will complete specific courses in the third social studies discipline not chosen as a major or minor.

## Major in Geographic Information Science

The general philosophy of the program stresses the importance of a content-rich background in geography along with principles and techniques of Geographic Information Science: GIS; remote sensing; visualization; cartography; spatial modeling; and quantitative methods. The major in Geographic Information Science was developed and structured for positions in local, state, and federal agencies, commercial companies, planning departments, engineering firms, utility companies, and many others. To prepare for GIScience careers, many students perform internships with government agencies or private firms as part of their academic program.

## Major in Geography Resource and Environmental Studies

The Geography Resource and Environmental Studies major prepares students for a wide variety of government and private sector occupations relating to resource conservation and/or environmental management. Graduates pursue careers with employers such as the Texas General Land Office, the Texas Commission on Environmental Quality, the Texas Department of Transportation, Texas Parks and Wildlife, the National

Geographic Society, the Lower Colorado River Authority, the San Antonio Water System, Motorola, Valero Energy and various private – sector environmental consulting firms.

## Major in Geography Urban and Regional Planning

Planning is a diverse profession, which draws upon fields of knowledge and technical skills closely related to geography. Urban and Regional Planning provides the means to evaluate and facilitate programs that benefit our neighborhoods, communities, cities, and regions. Population growth, economic development, transportation, education, public services, and the environment are a few of the essential factors evaluated by planners. Many of our graduates are employed as planners in Texas, as well as within other states and countries. Others have continued in graduate studies at Texas State or in other programs at the University of Texas or Texas A&M, as well as universities outside Texas.

## Major in Geography Water Resources

The Geography Water Resources major provides a focused study of the physical, chemical, social, political, and economic factors of water resources from the geographic perspective. As water resources become ever more critical to the nation, and in particular Texas and the Southwest Borderlands, this degree program addresses the increasing need for professionals in this crucial field. Graduates are highly sought after by government agencies, from local, state to federal, industries that have large water demands, agricultural interests and private consulting firms that specialize in water resource issues. The Lower Colorado River Authority, the Guadalupe-Blanco River Authority, the Edwards Aquifer Authority, and the San Antonio Water System all employ graduates of the program.

## Major in Physical Geography

This major emphasizes the physical science elements of geographical study. Physical Geography prepares students for employment in applied climatology and meteorology, oceanography, geomorphology, resource evaluation, environmental analysis, and areas where an understanding of the complex relationship between nature and society is required. Students considering graduate studies in Physical Geography or any of the earth and atmospheric sciences should select this degree option.

## Admission Process

Students meeting university admission standards enter the undergraduate Geography program as pre-majors. To become majors, students must complete the following with a grade of "C" or higher in each course:

GEO 1309 or GEO 1310	Introduction to Cultural Geography World Geography	3
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3
Total Hours		14

## Academic Advising

The Department of Geography provides extensive academic advising services which include individual and group advising. All geography majors and minors are encouraged to seek advice about program requirements and course selection each semester. Major faculty and

academic advisors can offer detailed program and course information as well as course checklists for each major. Proper academic planning and academic advising leads students toward completing the steps for satisfying graduation requirements.

## Bachelor of Arts (B.A.)

- Major in Geography (p. 379)

## Bachelor of Science (B.S.)

- Major in Geographic Information Science (p. 380)
- Major in Geography (p. 381)
- Major in Geography (Teacher Certification in Social Studies, Grades 7-12: History Minor and Political Science Third Field) (p. 382)
- Major in Geography (Teacher Certification in Social Studies, Grades 7-12: Political Science Minor and History Third Field) (p. 384)
- Major in Geography Resource and Environmental Studies (p. 385)
- Major in Geography Urban and Regional Planning (p. 387)
- Major in Geography Water Resources (p. 388)
- Major in Physical Geography (p. 389)

## Minors

- Geography (p. 392)
- Geology (p. 392)
- Nature and Heritage Tourism (p. 392)

## Certificates

- Environmental Interpretation (p. 390)
- Geographic Information Science (p. 391)
- Location Analysis (p. 391)
- Water Resources Policy (p. 391)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: GEO (p. 372), GEOL (p. 378), NHT (p. 379)**

## Courses in Geography (GEO)

### GEO 1105. Meteorology Laboratory.

Laboratory observations, calculations, and exercises of meteorological data and phenomena. Prerequisite or corequisite: GEO 1305

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1147

### GEO 1305. Meteorology.

An introduction to atmospheric science providing information on the properties of the atmosphere, the scientific principles that govern weather and climate, and interactions between the atmosphere and the other components of the Earth system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1347



**GEO 1309. Introduction to Cultural Geography.**

This course introduces students to the geographical perspective and focuses on spatial distributions of human activities and investigates underlying geographical processes that account for present and past cultural patterns such as population, folk and popular culture, language, religion, gender, ethnicity, politics, urban and rural land use, and economic development. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GEOG 1302

**GEO 1310. World Geography.**

This course stresses the similarities and differences of the major world regions. Emphasis is given to human behavior in a spatial context. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GEOG 1303

**GEO 2110. Physical Geography Laboratory.**

This is a laboratory course that includes exercises and calculations to apply principles and concepts covered in introductory physical geography lecture classes. These include geographic tools, weather and climate, soils and biogeography, and geomorphology. Open only to students who have taken the lecture class at another college/university. Prerequisites: MATH 1315 or higher (excluding MATH 1316) with a grade of "C" or higher. An introductory physical geography lecture course with a grade of "C" or higher. Instructor Approval Needed

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 2310. Introduction to Environmental Geography.**

Introduces the Geographic perspective to examine the Earth's environment and its opportunities, constraints, and risks, Principles of scale space, and distributions will be used in examining the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 2410. Introduction to Physical Geography.**

A systematic study of the various elements that make up the Earth's physical environment, weather, climate, vegetation, soil, and landforms. Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2420. Introduction to Geographic Information Techniques.**

The course will introduce the foundations of geographic information systems (GIS), global positioning systems (GPS), remote sensing, cartography, data analysis, and other tools and methods used by geographic information scientists. Maps, data collection, using and creating Internet content, and data analysis and display will be topics in the course

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2426. Fundamentals of Geographic Information Systems.**

This course is an introduction to Geographic Information Systems (GIS), a tool for integrating and analyzing spatial data to visualize relationships, seek explanations and develop solutions to pressing problems. The foundations and theory of GIS will be emphasized.

Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2427. Management and Implementation of GIS.**

This course addresses strategies for successful GIS management and implementation in an organization-wide context and is organized around four primary issues: implementation planning, data management, technology assessment, and organizational setting. Prerequisite: GEO 2426 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3134. Water Quality Monitoring and Management.**

This course incorporates the water quality training of Texas Watch so students can receive certification and become Texas Watch water quality monitors. In addition, students learn to compile, analyze, and present water quality data for watershed management. May be repeated once for credit. Corequisite or prerequisite: GEO 3434

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 3301. Research Methods in Geography.**

This course provides an introduction to quantitative and qualitative research methodology, data collection and analytical techniques.

Topics include descriptive, inferential, spatial quantitative statistics and qualitative methods such as case studies and content analysis.

The course will introduce students to software applications that are designed for organizing, analyzing and visualizing data. Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3303. Economic Geography.**

This course investigates the geographic organization of economic activity with emphasis on the interconnections from global to local scales. Technological advances, resource creation and destruction, supply and demand, distribution and development, environmental impacts, and economic justice are addressed. Theoretical models are used to interpret past and current situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3305. Climatology.**

Introduction to the elements of climate and their use in environmental monitoring and analysis. Prerequisite: GEO 1305 or GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 3307. Geography of Europe.**

The course presents a systematic and regional investigation of the physical and cultural processes and phenomena that have created the characteristic landscapes of Europe. Topics include the climate, landform regions, trade, transportation, urban growth, population change, and the evolution of economic integration in the region. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3308. Latin America.**

A regional survey of the physical and cultural geography of Latin America. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3309. United States and Canada.**

This course provides a systematic and regional analysis of the United States and Canada with emphasis on contemporary economic, environmental, political, and social issues. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3310. Urban Geography.**

The study of city systems, form, and development with emphasis on functional patterns, economic base, industrial location, service, and social area analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3313. Natural Resource Use and Management.**

This course uses environmental concepts at all geographic scales to identify and analyze patterns and processes of resource use, and discusses management strategies to solve present and future concerns related to natural resources. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3320. Community and Regional Planning.**

This course examines the practice, history and development of community and regional planning in the U.S. focusing on specific methods and legal frameworks of community planning and cultivating sustainable development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3321. Energy Resource Management.**

An analysis of energy sources, their distribution and characteristics, and the problems associated with their use and management. Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3323. Location Analysis.**

Location and movement stressed in terms of the factors considered in locating industry, business, housing, and community facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3325. Geomorphology.**

This course provides a study of landforms, the processes and materials that form them and change them over time. Students will be introduced to bibliographic research and the interpretation of landforms and landscapes in the field from photographs or maps. Prerequisite: GEO 2410 or GEOL 1410 or equivalents with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3328. Geography of North Africa and the Middle East.**

A regional treatment dealing with the physical features and cultural activities of the people in North Africa and the Middle East. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3329. Geography of Texas.**

A physical and cultural geography of Texas with special emphasis on human resources and economic activities. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3332. Geography of South and Southeast Asia.**

This course is a systematic and regional overview of the physical and human geography of the countries of the Indian subcontinent and Southeast Asia. Topics include the monsoons, cultural diversity, rapid economic development, agricultural systems, and environmental problems. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3333. Geography of China and Japan.**

This course provides a regional overview of the physical and human geography of the countries of East Asia. This course also systematically examines China, Korea, and Japan by closely examining such topics as the impacts of high population densities and intensive land use practices. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3335. Oceanography.**

An introductory course about the physical, chemical, geologic, and biologic characteristics of the oceans and coastal areas. Emphasis will be placed on the role of the oceans as a component of the global environment. Prerequisite: GEO 2410 or GEOL 1410 or BIO 1320 or BIO 1430, with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3340. Political Geography.**

Political geography concerns the interrelationship between political activities and spatial distributions. Topics include the concept of the state, international spheres of influence and confrontation, boundaries, contemporary world issues and problems, and geographic aspects of electoral politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. The course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections. Prerequisite: MATH 1315 or higher (not including MATH 1316) with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3351. Geography of Health.**

This course introduces concepts of health, health care, disease, and illness from a geographical perspective. The course will examine how people and societies interact geographically with the environment in ways that result in varying degrees of health. The focus will be on understanding health from the perspective of populations rather than individuals in a geographic context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3353. American Ethnic Geography.**

A geographical analysis of ethnic groups in the United States with emphasis on their settlement patterns, spatial interactions, and current problems. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3411. Maps and Mapmaking.**

An introduction to reference and thematic map use and design. The course introduces basic cartographic mapping techniques for quantitative and qualitative data, teaches about geospatial analysis and interpretation, and enables students to design basic maps. Prerequisite: GEO 2426 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3416. Principles of Remote Sensing.**

Introduction to the acquisition, mensuration, interpretation, and mapping of aerial photographs and satellite images for environmental monitoring and inventorying. Prerequisite: GEO 2410 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3426. Advanced GIS.**

This course builds on the principles introduced in GEO 2426 and presents an in-depth examination of the technical aspects involved in spatial data handling, analysis, and modeling. Prerequisite: GEO 2426 and GEO 3301 with grades of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3434. Water Resources.**

This course analyzes within a geographical perspective, the formation, use, conservation, and management of water resources. The students will develop a working knowledge of the hydrologic, water quality, legal, economic, political, and societal factors that determine water availability, hazards, use, demand, and allocation. Prerequisite: GEO 2410, or CHEM 1141 and CHEM 1341, with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4190. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4290. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4306. Geography of the Southwest.**

Though primarily defined by aridity, the southwestern United States is extremely diverse in its environments and its people. This course explores how people have related to this land. This course also examines current issues and future trends in natural resources and cultural processes in the region. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 4309. Cultural Ecology.**

Cultural ecology employs concepts of culture formation/change and biological ecology, with emphasis on the processes of adaptation. It provides a holistic means to interpret pre-modern, non-western, and agrarian cultures as well as modern cultures as they relate to their biophysical environment. Prerequisite: Junior or Senior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4310. Regional Field Studies.**

Observation, description, and analysis of a geographical environment based upon offcampus study in that environment. May be repeated once, provided the second study is in a different region, for a total of 6 semester hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**GEO 4313. Environmental Management.**

This course provides an analysis of the causes of environmental problems, from local to global scale, and the evaluation of attempts at management and solutions of those problems. Emphasis will be placed on the role that geography can play in environmental degradation and management. Prerequisite: GEO 2410 with a grade of "C" or higher and senior status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4314. River Basin Management.**

The purpose of this course is to study principles and practices of large-scale river basin management. Emphasis is on integrated management of land and water resources, including economic development and environmental protection issues. Prerequisite: GEO 3434 or GEO 4325 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4316. Landscape Biogeography.**

Investigation of present-day and post-Pleistocene spatial patterns of plants, animals, and biogeographical processes. Human interactions with biogeographical patterns is also addressed, as are methods for reconstructing Holocene patterns of biogeographic distribution. Course to be taught over every other year. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4321. Cities and Urban Design.**

This course explores the relationships between design and urban landscapes. It analyzes urbanization and provides a critical appraisal of the role of design and material culture in shaping urban environments. Prerequisite: GEO 3310 with a "C" or higher and junior or senior status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4322. Interpretive Environmental Geography.**

Students learn principles, themes, and techniques for effective interpretation of environmental information to audiences ranging from park visitors to professional conferences. Interpretive themes are drawn from geographic concepts including the physical and cultural landscapes and cultural ecology. Techniques emphasize effective use of traditional and digital presentation methods. Prerequisite: GEO 2410 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4323. Conservation Leadership.**

This course offers an in-depth introduction to the conservation movement and the philosophy, establishment, and operation of institutions engaged in that movement. Problems and attributes of leadership will be emphasized along with the operational implications, ethical issues and other considerations for successful implementation at non-governmental, local, state, and federal levels. Restricted to Junior or Senior Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4325. Fluvial Processes.**

Students analyze modern principles of river processes and forms within a geographical perspective. This course examines the fundamental mechanics of fluvial channels with an emphasis on quantitative geographic evaluation of their processes. The course emphasizes natural scientific perspectives and includes linkages to ecology, engineering, resources management, and policy. Prerequisite: GEO 3325 or GEO 3434 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of Public Parks, Wildlife Refuges, Protected Areas, Non-Governmental Preserves and Historic Sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition. Prerequisite: Junior or Senior status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4328. Geography of the Russian Realm.**

This course presents a regional and systematic overview of the physical and human geography of the countries of the former Soviet Union. The course examines in depth issues such as the legacy of the degraded landscape and environmental problems left by decades of Soviet industrialization. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4334. Groundwater Resources.**

This course examines, within a geographical perspective, the major concepts and principles that control groundwater availability and use. Students will analyze aquifer characteristics that determine their water quantity and quality. Constraints on aquifer use including environmental, economic, societal, and legal factors will be analyzed for optimizing aquifer management and water-use policy. Prerequisite: GEO 3434 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4335. Directed Research.**

Individual and group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the faculty member prior to registration. This course may be repeated for credit, but a student may not exceed six hours of credit in Directed Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4336. Transportation Systems.**

This course is an examination of the evolution of urban transportation systems, policies, institutions, and methods in the United States.

Principles, procedures, and techniques of transportation planning in the State of Texas are covered and students are introduced to the literature in transportation geography and methods of transportation analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4338. Planning Practicum.**

This capstone course focuses on methods and procedures used for planning and managing urban development on the local level. Topics include municipal ordinances, the development/redevelopment process and relationships between development, capital improvements and the local economy. Prerequisite: GEO 3320 with a "C" or higher and junior or senior status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4339. Environmental Hazards.**

Analysis of environmental hazards with respect to human use of the land. Includes geologic hazards and problems caused by floods and meteorological conditions. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4340. Fundamental Themes in Geography.**

Students will become familiar with the K-12 Geography Texas Essential Knowledge and Skills (TEKS) and the national geography content standards, identify instructional resources and materials, design instructional units, and fully develop grade level appropriate inquiry based lessons and student assessments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4341. Water Policy.**

This course covers the evolution of water policy from the awareness of issues, through the political and legal process, to the implementation of specific plans, programs, and facilities. Prerequisite: GEO 3434 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4350. Solid Waste Planning and Management.**

A survey of the methods of solid waste disposal including waste storage, collection, transportation and disposal, and their short-and long-range effects on the environment. A practical course in the planning, implementation, and management of alternate methods of sanitary waste disposal. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4352. Air Quality Management.**

This course provides an assessment and analysis of air quality including types, sources, and effects of air pollutants as well as principles governing their dispersal and management. These aspects are analyzed considering physical science, economic, legal and social factors. Prerequisite: CHEM 1141 and CHEM 1341, or GEO 2410, or GEO 3305 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4355. Geography of Crime.**

This course provides understanding of geographical aspects of crime and criminal behavior. Students are exposed to theories and analysis methods and models explaining and predicting crime spatial patterns. Computer exercises give students hands on experience on crime pattern analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4380. Internship in Geography.**

On-the-job training in a public or private-sector agency. Students must apply to the department internship director at least six weeks prior to registering for the internship course. This course may be repeated one time for additional internship credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4390. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4393A. Environmental Compliance.**

This course examines the implementation and enforcement of environmental statutes and regulations from a geographic perspective that includes physical environmental, cultural, social, economic, and legal parameters. The course focuses on current environmental requirements as applied to contemporary regulatory challenges including widely applicable innovative compliance strategies. Prerequisites: GEO 4313 and one course from GEO 3434, GEO 4350, or GEO 4352, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 4393B. Business Geography.**

This course provides an exploration of the geospatial analysis of business activities in the United States with emphasis on site location, market segmentation and material/product tracking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 4411. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a cartographic portfolio of well-designed, professional grade maps. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**GEO 4412. Digital Remote Sensing.**

Introduction to the digital image processing of satellite scenes including restoration, enhancement, classification, change detection, and mapping for environmental monitoring and inventorying. Prerequisites: GEO 3301 and GEO 3416 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4417. Digital Terrain Modeling.**

The course focuses on the mapping, transformation, mensuration, visualization, and applications of digital elevation models in Geography.

Prerequisite: GEO 3416 or equivalent with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4422. Web Mapping.**

The course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external client(s).

Prerequisites: GEO 2426 and GEO 3411 or GEO 3426 with a minimum grade of "C"

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4427. GIS Design and Implementation.**

This course involves students working as a team on a substantive GIS project, which is designed and conducted by the class. Students will develop and demonstrate competence in GIS techniques at the professional level. Prerequisite: GEO 3426 or equivalent with a grade of "C" or higher, Junior or Senior standing, and instructor approval

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents with a grade of "C" or higher. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Geology (GEOL)

**GEOL 1410. Physical Geology.**

The study of materials making up the Earth, the processes that act upon them, and the results of these processes; the development of tools for the interpretation of earth's history and structure, and the major geologic concepts

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1403

**GEOL 1420. Historical Geology.**

A continuation of physical geology leading to consideration of the geologic history of the Earth (with special emphasis on North America), the evolution of life, the continents through geologic time and the principles and procedures used in the interpretation of earth history.

Prerequisite: GEOL 1410

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1404

**GEOL 2410. Mineralogy.**

Study of the crystal systems, physical properties, classification, and hand specimen identification of common rock-forming and ore minerals. One semester of Chemistry recommended. Prerequisites: CHEM 1141 and CHEM 1341, and "C" or better in GEOL 1410 and GEOL 1420

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3400. Petrology.**

An introduction to the hand specimen and microscopic study of igneous, sedimentary, and metamorphic rocks. This course includes the origin of mineral assemblages that make up rocks and the environments of formation. Prerequisite: GEOL 2410 with a grade of "C" or better

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3410. Sedimentation and Stratigraphy.**

Principles of the weathering, transportation, deposition, and lithification of sediments. Primary structures and textures of sediments are used to determine environments of deposition. The recognition and classification of strata into stratigraphic units. Prerequisite: GEOL 2410 completed with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3430. Structural Geology.**

Description, classification, and origin of Earth structures and the stresses involved in their formation. Solution of structural geology problems using analytical geometry, geologic maps, contouring of data, and preparation of cross sections. Prerequisites: GEOL 1410 and GEOL 1420 (or equivalents)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**GEOL 3440. Paleontology and Biostratigraphy.**

Identification of ancient invertebrate faunas and their applications in reconstruction of paleoenvironments, paleogeography, and the means by which "time" correlations can be effected in sedimentary strata. Field intensive course, 1 full day in the field per week. Course will be offered alternating summers. Prerequisites: GEOL 1410 and GEOL 1420 (or equivalents)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 4121. Directed Study.**

Independent study of a particular subject area in geology. Specific topic to be discussed and agreed upon prior to registration. May be repeated once with different emphasis and professor for additional credit. Prerequisite: GEOL 1410 and GEOL 1420 with a grade of "C" or higher and approval of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEOL 4320. Topics in Field Geology.**

This course provides on-site directed investigations of geology in locations remote from campus. Prerequisite: GEOL 1410 and GEOL 1420 with grades of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GEOL 4321. Directed Study.**

This course is designed to provide a student with an opportunity to conduct independent research for credit in consultation with his or her Geology instructors. The course may be repeated once with a different content or instructor. Prerequisite: GEOL 1410 and GEOL 1420 with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEOL 4330A. Introduction to Petroleum Geology.**

This course discusses the origin and distribution of conventional and unconventional petroleum resources, source rocks, types of traps and seals, reservoir rock properties, exploration methods (seismic data analysis and interpretation, formation evaluation, subsurface mapping), reservoir characterization and modeling, reserves calculations. Prerequisites: GEOL 1410, GEOL 1420, and CHEM 1141/CHEM 1341 with grades of "C" or higher. Co-requisite: GEOL 4121

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEOL 4330B. Planetary Geology.**

This course is a survey of the application of geologic principles to the rocky planets and satellites in the solar system. Prerequisites: GEOL 1410 and GEOL 1420 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEOL 4421. Hydrogeology.**

This course will provide the student with an introduction to the science of hydrogeology, a conceptual and quantitative understanding of groundwater from a geological/mathematical/geochemical perspective, and experience with hydrogeology applications. Prerequisites: GEOL 1420 with a grade of "C" or higher, and CHEM 1141 and CHEM 1341

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Nature and Heritage and Tourism (NHT)

**NHT 4301. Planning and Development of Nature and Heritage Tourism.**

This course applies basic planning and development principles to the special issues of nature and heritage tourism. Particular emphasis is placed on locational analysis, site analysis, and planning for sustainable use. Prerequisite: GEO 2410 with a grade of "C" or higher, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NHT 4302. Internship in Nature and Heritage Tourism.**

Students will work in private or public sector settings to gain practical experience in the planning, development and management of nature and/or heritage tourism. Internships must be approved by the director of the Center for Nature and Heritage Tourism. Students will be expected to perform at high professional standards and will interpret the internship experience within the context of current literature. Prerequisite: NHT 4301

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Geography

**Minimum required: 120 semester hours**

### General Requirements

- To satisfy graduation requirements, students must have at least a 2.50 Geography major GPA and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
- Geography required elective courses (16 hours) to be selected in consultation with your academic advisor.
- The degree requires students to select a minor area of study from the approved list of minors offered at Texas State. Biology, Chemistry, Geology, Anthropology, Computer Science, Mathematics, Plant and Soil Science, or Physics are minors that are highly recommended to complement your Geography major. Other minors may be appropriate depending upon your interests and career goals. Discuss other possible options with your academic advisor.
- Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - general education core curriculum requirements;
  - major requirements;
  - minor requirements;
  - additional College/degree requirements, which include an additional sophomore English literature course and 14 hours of the same modern language (1410, 1420, 2310, 2320); and

- e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

		<b>Freshman</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 1310	3	HIST 1310	3
US 1100	1	ENG 1320	3
GEO 1309 or 1310 <sup>1</sup>	3	GEO 2410 <sup>1</sup>	4
POSI 2310	3	Life and Physical Sciences	3
Life and Physical Sciences	3		
MATH 1315 (or above, not MATH 1316)	3		
	16		13

		<b>Sophomore</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
COMM 1310	3	POSI 2320	3
GEO 3301 <sup>1</sup>	3	Select one of the following:	3
Select one of the following (ENG Literature):	3	ENG 2310	
ENG 2310		ENG 2320	
ENG 2320		ENG 2330	
ENG 2330		ENG 2340	
ENG 2340		ENG 2359	
ENG 2359		ENG 2360	
ENG 2360		Modern Language 1420	4
Modern Language 1410	4	Select one of the following (GEO techniques): <sup>2</sup>	4
HIST 1320	3	GEO 2426	
		GEO 3411	
		GEO 3416	
		GEO 4430	
		PHIL 1305 or 1320	3
	16		17

		<b>Junior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
Select one of the following:	3	GEO Advanced	7
ART 2313		Minor	6
DAN 2313		Modern Language 2320	3
MU 2313			
TH 2313			
Social and Behavioral Sciences	3		
GEO Advanced	3		
Minor	3-4		
Modern Language 2310	3		
	15-16		16

		<b>Senior</b>	
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
GEO Advanced	6	Electives (as needed)	6
Electives (as needed)	6	Minor	6

Minor	3		
	15		12

Total Hours: 120-121

<sup>1</sup> All majors must satisfy the pre-major requirements with grades of "C" or higher in each course

<sup>2</sup> Majors must complete at least 30 hours of Geography coursework including a Geography Techniques Course to be selected from: GEO 2426, GEO 3411, GEO 3416, or GEO 4430

## Bachelor of Science (B.S.) Major in Geographic Information Science

**Minimum required: 120 semester hours**

### General Requirements

- The B.S. degree requires a minimum of 36 semester hours of Geography. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 TXST GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
- All majors must satisfy the pre-major requirements with grades of "C" or higher in each course:
 

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 3301	Research Methods in Geography	3
- Required Core Courses:
 

GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3411	Maps and Mapmaking	4
GEO 3416	Principles of Remote Sensing	4
GEO 3426	Advanced GIS	4
- Required Capstone Course: At least one course from (3-10 hours):
 

GEO 4411	Advanced Cartographic Design	4
GEO 4412	Digital Remote Sensing	4
GEO 4422	Web Mapping	4
GEO 4424	GPS and GIS	4
GEO 4427	GIS Design and Implementation	4
- Geography Required Electives: In consultation with an advisor, select from the following courses to bring the required Geography hours to 36.
 

GEO 1305	Meteorology	3
GEO 1309	Introduction to Cultural Geography	3
GEO 1310	World Geography	3
GEO 2310	Introduction to Environmental Geography	3
GEO 2420	Introduction to Geographic Information Techniques	4
GEO 2427	Management and Implementation of GIS	4

Any 3000/4000 level course
- This major also requires an additional three hours of computer science or three hours of mathematics beyond the general education core curriculum requirement. (CS 1308 or higher, CIS 1323 or higher,

MATH 1317 or higher). Does not count toward 36 required geography hours.

7. The degree requires that students select a minor from the approved list of minors. Various minors may be appropriate depending upon a student's interests and career goals. Discuss possible options with your advisor.
8. Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - a. general education core curriculum requirements;
  - b. major requirements;
  - c. minor requirements
  - d. additional College/degree requirements, which include either an additional sophomore English literature course or ENG 3303—Technical Writing and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation, of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

Social and Behavioral Sciences	3		
Minor	3		
GEO Advanced	7		
	16		16
			<b>Senior</b>
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
Minor	3	Minor	6
Electives (as needed)	6	Electives (as needed)	3
GEO Advanced	6	GEO Advanced	3
	15		12

Total Hours: 120

## Bachelor of Science (B.S.) Major in Geography

**Minimum required: 120 semester hours**

### General Requirements

1. To satisfy graduation requirements, students must have at least a 2.50 Geography major GPA and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
2. Geography required elective courses (22 hours) to be selected in consultation with your academic advisor.
3. The degree requires students to select a minor area of study from the approved list of minors offered at Texas State. Biology, Chemistry, Geology, Anthropology, Computer Science, Mathematics, Plant and Soil Science, or Physics are minors that are highly recommended to complement your Geography major. Other minors may be appropriate depending upon your interests and career goals. Discuss other possible options with your academic advisor.
4. Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - a. general education core curriculum requirements;
  - b. major requirements;
  - c. minor requirements;
  - d. additional College/degree requirements, which include an additional sophomore English literature course and 14 hours of the same modern language (1410, 1420, 2310, 2320); and
  - e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

<b>Freshman</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 1310	3	HIST 1310	3
US 1100	1	ENG 1320	3
POSI 2310	3	Life and Physical Sciences	3
Life and Physical Sciences	3	GEO 2410	4
MATH 1315 (or above, not MATH 1316)	3		
GEO 1309 or 1310	3		
	16		13

<b>Sophomore</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
COMM 1310	3	POSI 2320	3
Select one of the following (ENG Literature):	3	Select one of the following:	3
ENG 2310		ENG 2310	
ENG 2320		ENG 2320	
ENG 2330		ENG 2330	
ENG 2340		ENG 2340	
ENG 2359		ENG 2359	
ENG 2360		ENG 2360	
Modern Language 1410 (if required), or elective	4	Modern Language 1420 (if required, or elective)	4
HIST 1320	3	PHIL 1305 or 1320	3
GEO 3301	3	GEO Advanced	3
	16		16

<b>Junior</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
Select one of the following:	3	Minor	6
ART 2313		Electives (as needed)	3
DAN 2313		GEO Advanced	7
MU 2313			
TH 2313			

<b>Freshman</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 1310	3	HIST 1310	3
US 1100	1	ENG 1320	3
GEO 1309 or 1310 <sup>1</sup>	3	GEO 2410 <sup>1</sup>	4
POSI 2310	3	Life and Physical Sciences	3
Life and Physical Sciences	3		
MATH 1315 (or above, not MATH 1316)	3		
	16		13

<b>Sophomore</b>			
First Semester Hours		Second Semester Hours	
COMM 1310	3	POSI 2320	3
GEO 3301 <sup>1</sup>	3	Select one of the following:	3
Select one of the following (ENG Literature):	3	ENG 2310	
ENG 2310		ENG 2320	
ENG 2320		ENG 2330	
ENG 2330		ENG 2340	
ENG 2340		ENG 2359	
ENG 2359		ENG 2360	
ENG 2360		Modern Language 1420 (if required), or elective	4
Modern Language 1410 (if required), or elective	4	GEO 2426 <sup>1</sup>	4
HIST 1320	3	PHIL 1305 or 1320	3
	16		17
<b>Junior</b>			
First Semester Hours		Second Semester Hours	
Select one of the following:	3	GEO Advanced	7
ART 2313		Minor	6
DAN 2313		Electives (as needed)	3
MU 2313			
TH 2313			
Social and Behavioral Sciences	3		
GEO Advanced	6		
Minor	3		
	15		16
<b>Senior</b>			
First Semester Hours		Second Semester Hours	
GEO Advanced	6	Electives (as needed)	3
Minor	3	Minor	6
Electives (as needed)	6	GEO, Advanced	3
	15		12

Total Hours: 120

<sup>1</sup> All majors must satisfy the pre-major requirements: Complete GEO 1309 or GEO 1310, GEO 2410, GEO 2426 and GEO 3301 with grades of "C" or higher in each course.

## Bachelor of Science (B.S.) Major in Geography (Teacher Certification in Social Studies, Grades 7-12: History Minor and Political Science Third Field)

**Minimum required: 130 semester hours**  
**General Requirements**

- This degree program requires a minimum of 130 semester hours of coursework to graduate including:
  - general education core curriculum requirements

- major requirements;
  - second and third teaching field requirements;
  - additional degree requirements, which include either an additional sophomore English literature course or ENG 3303 (Technical Writing) and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - additional elective courses, as needed, to achieve the minimum 130 hours required for graduation, of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).
- To satisfy graduation requirements for teacher certification, students must have at least a 2.75 Overall GPA, at least a 2.50 major GPA for Geography, and a 2.50 GPA in the second and third teaching fields. In addition, students must make a "C" or higher in certain Core classes and in all coursework pertaining to each teaching field.

- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
- This option in secondary teacher certification requires completion of the following 36 hours in Geography:
 

GEO 1309	Introduction to Cultural Geography	3
GEO 1310	World Geography	3
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3
GEO 3303	Economic Geography	3
GEO 3309	United States and Canada	3
GEO 3313	Natural Resource Use and Management	3
or GEO 4313	Environmental Management	
GEO 3329	Geography of Texas	3
GEO 4340	Fundamental Themes in Geography	3

Select one additional techniques course from:		4
GEO 3411	Maps and Mapmaking	
GEO 3416	Principles of Remote Sensing	
GEO 3426	Advanced GIS	
GEO 4430	Field Methods	

OR two additional courses from (consult with your advisor):

GEO 3307	Geography of Europe	
GEO 3308	Latin America	
GEO 3328	Geography of North Africa and the Middle East	
GEO 3332	Geography of South and Southeast Asia	
GEO 3333	Geography of China and Japan	
GEO 4306	Geography of the Southwest	
GEO 4328	Geography of the Russian Realm	

Total Hours 36

- The minor in History (24 hours) requires completion of the following History courses:
 

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
Advanced Group A (World History)		3

Advanced Group B (European History)	3
HIST 3372 Texas History: A Survey	3
HIST 4300 Social Studies Resources and Practices	3
<b>Total Hours</b>	<b>24</b>

6. The third field in Political Science (15 hours) requires completion of the following courses:

POSI 2310 Principles of American Government	3
POSI 2320 Functions of American Government	3
Group 3 (Public Law)	
Select one of the following:	3
POSI 3310 Constitutional Law: Basic Structures and Principles	
POSI 3311 Constitutional Law: Individual Liberties	
POSI 4311 The Supreme Court and the Judicial Process	
Political Science from Group 2 (American Government)	6
<b>Total Hours</b>	<b>15</b>

7. In addition to the major, minor, and third field requirements, students must also complete 21 hours of professional sequence courses through the College of Education:

CI 4370 Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 3325 Adolescent Growth and Development	3
CI 4332 Secondary Teaching: Curriculum and Technology	3
CI 4343 Instructional Strategies for the Secondary Teacher	3
RDG 3323 Teaching Reading in the Content Areas	3
EDST 4681 Student Teaching 8-12 (Student Teaching)	6
All coursework must be completed prior to student teaching.	
<b>Total Hours</b>	<b>21</b>

**Freshman**

First Semester	Hours	Second Semester	Hours
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
MATH 1315 (or above, not MATH 1316)	3	GEO 1310	3
GEO 1309	3	GEO 2410	4
US 1100	1		
<b>16</b>		<b>16</b>	

**Sophomore**

First Semester	Hours	Second Semester	Hours
Select one of the following (ENG Literature):	3	ENG 3303 (or 2nd Literature)	3

ENG 2310 Modern Language 1410 (if required)	0-4
ENG 2320 HIST 2311	3
ENG 2330 GEO Advanced	6
ENG 2340 COMM 1310	3
ENG 2350	
ENG 2360 Modern Language 1410 (if required)	0-4
HIST 1320	3
PHIL 1305 or 1320	3
POSI 2320	3
GEO 3301	3
<b>15</b>	
<b>15</b>	

**Junior**

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	GEO Advanced	7
ART 2310 History Advanced Group Electives	3		
DAN 2313 POSI Advanced	6		
MU 2313			
TH 2313			
ECO 2301 or 2314 <sup>1</sup>	3		
HIST 2312	3		
GEO 2426	4		
GEO Advanced	3		
<b>16</b>		<b>16</b>	

**Senior**

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
HIST 3372 History Advanced Group Electives	3	CI 4332 HIST 4300	3	EDST 4681	6
POSI Advanced	3	Education Block:	9		
CI 3325	3	CI 4370			
GEO Advanced	3	CI 4343			



RDG 332:		
15	15	6

Total Hours: 130

<sup>1</sup> ECO 2301 or ECO 2314 is required to satisfy the Social and Behavioral Sciences component of the general education core curriculum requirements.

# Bachelor of Science (B.S.) Major in Geography (Teacher Certification in Social Studies, Grades 7-12: Political Science Minor and History Third Field)

## Minimum required: 130 semester hours General Requirements

- This degree program requires a minimum of 130 semester hours of coursework to graduate including:
  - general education core curriculum requirements;
  - major requirements;
  - second and third teaching field requirements;
  - additional college/degree requirements, which include either an additional sophomore English literature course or ENG 3303 (Technical Writing) and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - additional elective courses, as needed, to achieve the minimum 130 hours required for graduation, of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI)
- To satisfy graduation requirements for teacher certification, students must have at least a 2.75 Overall GPA, at least a 2.50 major GPA for Geography, and a 2.50 GPA in the second and third teaching fields. In addition, students must make a “C” or higher in certain Core classes and in all coursework pertaining to each teaching field.
- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
- This option in secondary teacher certification requires completion of the following 36 hours in Geography:

GEO 1309	Introduction to Cultural Geography	3
GEO 1310	World Geography	3
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3
GEO 3303	Economic Geography	3
GEO 3309	United States and Canada	3
GEO 3313	Natural Resource Use and Management	3
or GEO 4313	Environmental Management	
GEO 3329	Geography of Texas	3
GEO 4340	Fundamental Themes in Geography	3
Select one additional techniques course from:		4
GEO 3411	Maps and Mapmaking	

GEO 3416	Principles of Remote Sensing	
GEO 3426	Advanced GIS	
GEO 4430	Field Methods	
OR two additional courses from (consult with your advisor):		
GEO 3307	Geography of Europe	
GEO 3308	Latin America	
GEO 3328	Geography of North Africa and the Middle East	
GEO 3332	Geography of South and Southeast Asia	
GEO 3333	Geography of China and Japan	
GEO 4306	Geography of the Southwest	
GEO 4328	Geography of the Russian Realm	
Total Hours		36

- The minor in Political Science (21 hours) requires completion of the following courses:
 

POSI 3300	Basic Political Ideas	3
or POSI 3301	Basic Political Institutions	
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
Group 2 (American Government)		6
Group 3 (Public Law)		3
Select three hours from the following:		3
POSI 3310	Constitutional Law: Basic Structures and Principles	
POSI 3311	Constitutional Law: Individual Liberties	
POSI 4311	The Supreme Court and the Judicial Process	
POSI 4398	Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics	
Total Hours		21
- The third field in History (18 hours) requires completion of the following:
 

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey	3
HIST 4300	Social Studies Resources and Practices	3
Total Hours		18
- In addition to the major, minor, and third field requirements, students must also complete 21 hours of professional sequence courses under the College of Education:
 

CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12 (Student Teaching)	6

All coursework must be completed prior to student teaching.

Freshman			
First Semester	Hours	Second Semester	Hours
ENG 1310	3	HIST 1310	3
POSI 2310	3	ENG 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3
MATH 1315 (or above, not MATH 1316)	3	GEO 1310	3
GEO 1309	3	GEO 2410	4
US 1100	1		
		16	16

Sophomore			
First Semester	Hours	Second Semester	Hours
Select one of the following (ENG Literature):	3	ENG 3303 (or 2nd Literature)	3
ENG 2310		Modern Language 1420 (if required)	0-4
ENG 2320		HIST 2311	3
ENG 2330		GEO Advanced	6
ENG 2340		COMM 1310	3
ENG 2350			
ENG 2360			
Modern Language 1410 (if required)	0-4		
HIST 1320	3		
PHIL 1305 or 1320	3		
POSI 2320	3		
GEO 3301	3		
		15	15

Junior			
First Semester	Hours	Second Semester	Hours
Select one of the following:	3	GEO Advanced	6
ART 2310		HIST 3372	3
DAN 2313		POSI 3300 or 3301	3

MU 2313	POSI Advanced	3			
TH 2313					
ECO 2301 or 2314 <sup>1</sup>		3			
HIST 2312			3		
GEO 2426			4		
POSI Advanced			3		
		16	15		
Senior					
First Semester	Hours	Second Semester	Hours	Third Semester	Hours
GEO Advanced	7	CI 4332		3 EDST 4681	6
POSI 4398	3	HIST 4300		3	
POSI Advanced	3	Education Block:		9	
CI 3325	3	CI 4370			
		CI 4343			
		RDG 332:			
		16	15		6

Total Hours: 130

<sup>1</sup> ECO 2301 or ECO 2314 is required to satisfy the Social and Behavioral Sciences component of the general education core curriculum.

## Bachelor of Science (B.S.) Major in Geography Resource and Environmental Studies

**Minimum required: 120 semester hours**  
**General Requirements**

- The B.S. degree requires a minimum of 36 semester hours of Geography. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
- All majors must satisfy the pre-major requirements with grades of "C" or higher in each course:
 

GEO 1309	Introduction to Cultural Geography	3
	or GEO 1310 World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3
- Required Core Courses:  
 Select one of the following options: 3-6  
 Option A:  
 GEO 2310 Introduction to Environmental Geography & GEO 3313 and Natural Resource Use and Management

Option B:

GEO 2310 Introduction to Environmental Geography  
or GEO 3313 Natural Resource Use and Management

Select at least two of the following:

- GEO 3321 Energy Resource Management
- GEO 3434 Water Resources
- GEO 4350 Solid Waste Planning and Management
- GEO 4352 Air Quality Management

- 4. Required Capstone Course: GEO 4313.
- 5. Required Techniques Courses: At least one course from:
  - GEO 3411 Maps and Mapmaking 4
  - GEO 3416 Principles of Remote Sensing 4
  - GEO 4430 Field Methods 4

6. Geography Required Electives: In consultation with an advisor, select from the following courses to bring the required Geography hours to 36.

GEO 1305	Meteorology	3
GEO 3134	Water Quality Monitoring and Management	1
GEO 3303	Economic Geography	3
GEO 3305	Climatology	3
GEO 3310	Urban Geography	3
GEO 3320	Community and Regional Planning	3
GEO 3325	Geomorphology	3
GEO 3335	Oceanography	3
GEO 3340	Political Geography	3
GEO 3349	Population Geography	3
GEO 3426	Advanced GIS	4
GEO 4309	Cultural Ecology	3
GEO 4310	Regional Field Studies	3
GEO 4314	River Basin Management	3
GEO 4316	Landscape Biogeography	3
GEO 4322	Interpretive Environmental Geography	3
GEO 4325	Fluvial Processes	3
GEO 4326	Parks and Protected Places	3
GEO 4334	Groundwater Resources	3
GEO 4339	Environmental Hazards	3
GEO 4341	Water Policy	3
GEO 4380	Internship in Geography	3
GEO 4412	Digital Remote Sensing	4

Students may select one regional course as a Geography Elective from the following:

GEO 3307	Geography of Europe	
GEO 3308	Latin America	
GEO 3309	United States and Canada	
GEO 3328	Geography of North Africa and the Middle East	
GEO 3329	Geography of Texas	
GEO 3332	Geography of South and Southeast Asia	
GEO 3333	Geography of China and Japan	
GEO 4306	Geography of the Southwest	
GEO 4328	Geography of the Russian Realm	

- 7. The degree requires students to select a minor area of study from the approved list of minors offered at Texas State. Biology, Chemistry, Geology, Anthropology, Computer Science, Mathematics, Plant and Soil Science, or Physics are minors that are highly recommended to complement your Geography major. Other minors may be appropriate depending upon your interests and career goals. Discuss other possible options with your academic advisor.
- 8. Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - a. general education core curriculum requirements;
  - b. major requirements;
  - c. minor requirements
  - d. additional College/degree requirements, which include either an additional sophomore English literature course or ENG 3303–Technical Writing and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

				<b>Freshman</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
ENG 1310		3	HIST 1310		3
US 1100		1	ENG 1320		3
POSI 2310		3	Life and Physical Sciences		3
Life and Physical Sciences		3	GEO 2410		4
MATH 1315 (or above, not MATH 1316)		3			
GEO 1309 or 1310		3			
		16			13

				<b>Sophomore</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
COMM 1310		3	POSI 2320		3
Select one of the following (ENG Literature):		3	Select one of the following:		3
ENG 2310			ENG 2310		
ENG 2320			ENG 2320		
ENG 2330			ENG 2330		
ENG 2340			ENG 2340		
ENG 2359			ENG 2359		
ENG 2360			ENG 2360		
Modern Language 1410 (if required), or elective		4	Modern Language 1420 (if required), or elective		4
HIST 1320		3	PHIL 1305 or 1320		3
GEO 3301		3	GEO Advanced		3
		16			16

				<b>Junior</b>	
		<b>First Semester Hours</b>			<b>Second Semester Hours</b>
Select one of the following:		3	Minor		6
ART 2313			Electives (as needed)		3
DAN 2313			GEO Advanced		7
MU 2313					
TH 2313					

Social and Behavioral Sciences	3		
Minor	3		
GEO 2426	4		
GEO Advanced	3		
	16		16
			<b>Senior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
Minor	3 Minor		6
Electives (as needed)	6 Electives (as needed)		3
GEO Advanced	6 GEO Advanced		3
	15		12

Total Hours: 120

## Bachelor of Science (B.S.) Major in Geography Urban and Regional Planning

**Minimum required: 120 semester hours**

### General Requirements

1. The B.S. degree requires a minimum of 36 semester hours of Geography. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.

2. All majors must satisfy the pre-major requirements with grades of "C" or higher in each course:

GEO 1309	Introduction to Cultural Geography	3
	or GEO 1310 World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3

3. Required Core Courses:

GEO 3310	Urban Geography	3
GEO 3320	Community and Regional Planning	3
GEO 4321	Cities and Urban Design	3
GEO 4338	Planning Practicum	3

4. Required Techniques Courses: At least one course from:

Select one of the following:

GEO 3411	Maps and Mapmaking
GEO 3416	Principles of Remote Sensing
GEO 3426	Advanced GIS
GEO 4380	Internship in Geography
GEO 4430	Field Methods

5. This major also requires an additional three hours of ENG 3303 with a grade of "C" or higher (does not count toward the required Geography hours).

6. Geography Required Electives: In consultation with an advisor, select from the following courses to bring the required Geography hours to 36.

GEO 3303	Economic Geography	3
GEO 3313	Natural Resource Use and Management	3
GEO 3321	Energy Resource Management	3
GEO 3323	Location Analysis	3
GEO 3340	Political Geography	3
GEO 3349	Population Geography	3
GEO 3353	American Ethnic Geography	3
GEO 3426	Advanced GIS	4
GEO 3434	Water Resources	4
GEO 4310	Regional Field Studies	3
GEO 4313	Environmental Management	3
GEO 4314	River Basin Management	3
GEO 4326	Parks and Protected Places	3
GEO 4336	Transportation Systems	3
GEO 4339	Environmental Hazards	3
GEO 4341	Water Policy	3
GEO 4350	Solid Waste Planning and Management	3
GEO 4380	Internship in Geography	3
GEO 4430	Field Methods	4

Select a maximum of 3 credit hours from the following:

GEO 1305	Meteorology	
GEO 1309	Introduction to Cultural Geography	
GEO 1310	World Geography	
GEO 2310	Introduction to Environmental Geography	

Any 3000-4000 level course

Students may select one regional course as a Geography Elective from the following:

GEO 3307	Geography of Europe
GEO 3308	Latin America
GEO 3309	United States and Canada
GEO 3328	Geography of North Africa and the Middle East
GEO 3329	Geography of Texas
GEO 3332	Geography of South and Southeast Asia
GEO 3333	Geography of China and Japan
GEO 4306	Geography of the Southwest
GEO 4328	Geography of the Russian Realm

7. The degree requires that students select a minor from the approved list of minors. Minors may be any approved Texas State minor. Students interested in entering the professional planning field are strongly advised however, to consider a minor in Public Administration, Business Administration, or Construction Technology. Other minors may be appropriate depending on career goals. Plan to discuss choice of minor as well as selection of elective courses with your academic advisor.

8. Texas State requires a minimum of 120 semester hours of coursework to graduate including:

- general education core curriculum requirements;
- major requirements;
- minor requirements

- d. additional College/degree requirements, which include either an additional sophomore English literature course or ENG 3303—Technical Writing and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
- e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

GEO Advanced	6 GEO Advanced	3
		15
		12

Total Hours: 120

## Bachelor of Science (B.S.) Major in Geography Water Resources

**Minimum required: 120 semester hours**

### General Requirements

1. The B.S. degree requires a minimum of 37 semester hours of Geography. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
2. All majors must satisfy the pre-major requirements with grades of "C" or higher in each course:
 

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3
3. Required Core Courses:
 

GEO 3305	Climatology	3
GEO 3434	Water Resources	4
GEO 4314	River Basin Management	3
GEO 4325	Fluvial Processes	3
GEO 4334	Groundwater Resources	3
or GEOL 4421	Hydrogeology	
GEO 4341	Water Policy	3
4. Required Techniques Courses: At least one course from:
 

GEO 3411	Maps and Mapmaking	4
GEO 3416	Principles of Remote Sensing	4
GEO 4430	Field Methods	4
5. The degree requires students to select a minor area of study from the approved list of minors. Minors may be any approved Texas State minor. Biology, Chemistry, Geology, Political Science, Anthropology, Business Administration, Plant and Soil Science, or Nature and Heritage Tourism are highly recommended to complement your Geography major in Water Studies.
6. Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - a. general education core curriculum requirements;
  - b. major requirements;
  - c. minor requirements
  - d. additional College/degree requirements, which include either an additional sophomore English literature course or ENG 3303—Technical Writing and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation of which 36 hours must be

Freshman			
First Semester		Second Semester	
Hours	Hours	Hours	Hours
ENG 1310	3	HIST 1310	3
US 1100	1	ENG 1320	3
POSI 2310	3	Life and Physical Sciences	3
Life and Physical Sciences	3	GEO 2410	4
MATH 1315 (or above, not MATH 1316)	3		
GEO 1309 or 1310	3		
16		13	

Sophomore			
First Semester		Second Semester	
Hours	Hours	Hours	Hours
COMM 1310	3	POSI 2320	3
Select one of the following (ENG Literature):	3	Select one of the following:	3
ENG 2310		ENG 2310	
ENG 2320		ENG 2320	
ENG 2330		ENG 2330	
ENG 2340		ENG 2340	
ENG 2359		ENG 2359	
ENG 2360		ENG 2360	
Modern Language 1410 (if required), or elective	4	Modern Language 1420 (if required), or elective	4
HIST 1320	3	PHIL 1305 or 1320	3
GEO 3301	3	GEO 2426	4
16		17	

Junior			
First Semester		Second Semester	
Hours	Hours	Hours	Hours
Select one of the following:	3	Minor	6
ART 2313		Electives (as needed)	3
DAN 2313		GEO Advanced	7
MU 2313			
TH 2313			
Social and Behavioral Sciences	3		
Minor	3		
GEO Advanced	6		
15		16	

Senior			
First Semester		Second Semester	
Hours	Hours	Hours	Hours
Minor	6	Minor	3
Electives (as needed)	3	Electives (as needed)	6



advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI).

## Bachelor of Science (B.S.) Major in Physical Geography

**Minimum required: 120 semester hours**

### General Requirements

- The B.S. degree requires a minimum of 36 semester hours of Geography. To satisfy graduation requirements, students must have at least a 2.50 major GPA for Geography and at least a 2.25 Texas State GPA. Students must make a grade of "C" or better in all Geography courses that are to be counted for credit toward their major.
- All majors must satisfy the pre-major requirements with grades of "C" or higher in each course:

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3301	Research Methods in Geography	3

- Required Core Courses:

GEO 3305	Climatology	3
GEO 3325	Geomorphology	3
Select at least two courses from the following:		6
GEO 1305	Meteorology	
GEO 3335	Oceanography	
GEO 4316	Landscape Biogeography	

- Required Techniques Courses: At least two courses from:

GEO 3411	Maps and Mapmaking	4
GEO 3416	Principles of Remote Sensing	4
GEO 3426	Advanced GIS	4
GEO 4412	Digital Remote Sensing	4
GEO 4422	Web Mapping	4
GEO 4424	GPS and GIS	4
GEO 4430	Field Methods	4

- Geography Required Electives: In consultation with an advisor, select from the following courses to bring the required Geography hours to 36.

GEO 2310	Introduction to Environmental Geography	3
GEO 2420	Introduction to Geographic Information Techniques	4
GEO 2427	Management and Implementation of GIS	4
GEO 3321	Energy Resource Management	3
GEO 3434	Water Resources	4
GEO 3349	Population Geography	3
GEO 4310	Regional Field Studies	3
GEO 4313	Environmental Management	3
GEO 4314	River Basin Management	3
GEO 4325	Fluvial Processes	3
GEO 4334	Groundwater Resources	3
GEO 4339	Environmental Hazards	3
GEO 4350	Solid Waste Planning and Management	3

Freshman		
First Semester Hours	Second Semester Hours	
ENG 1310	3 HIST 1310	3
US 1100	1 ENG 1320	3
POSI 2310	3 Life and Physical Sciences	3
Life and Physical Sciences	3 GEO 2410	4
MATH 1315 (or above, not MATH 1316)	3	
GEO 1309 or 1310	3	
	16	13

Sophomore		
First Semester Hours	Second Semester Hours	
COMM 1310	3 POSI 2320	3
Select one of the following (ENG Literature):	3 Select one of the following:	3
ENG 2310	ENG 2310	
ENG 2320	ENG 2320	
ENG 2330	ENG 2330	
ENG 2340	ENG 2340	
ENG 2359	ENG 2359	
ENG 2360	ENG 2360	
Modern Language 1410 (if required), or elective)	4 Modern Language 1420 (if required), or elective)	4
HIST 1320	3 PHIL 1305 or 1320	3
GEO 3301	3 GEO 2426	4
	16	17

Junior		
First Semester Hours	Second Semester Hours	
Select one of the following:	3 Minor	6
ART 2313	Electives (as needed)	3
DAN 2313	GEO Advanced	7
MU 2313		
TH 2313		
Social and Behavioral Sciences	3	
Minor	3	
GEO Advanced	6	
	15	16

Senior		
First Semester Hours	Second Semester Hours	
Minor	3 Minor	6
Electives (as needed)	6 Electives (as needed)	3
GEO Advanced	6 GEO Advanced	3
	15	12

Total Hours: 120

GEO 4380	Internship in Geography	3
Student may select one regional course as a Geography Elective from the following:		
GEO 3307	Geography of Europe	
GEO 3308	Latin America	
GEO 3309	United States and Canada	
GEO 3328	Geography of North Africa and the Middle East	
GEO 3329	Geography of Texas	
GEO 3332	Geography of South and Southeast Asia	
GEO 3333	Geography of China and Japan	
GEO 4306	Geography of the Southwest	
GEO 4328	Geography of the Russian Realm	

6. The degree requires that students select a minor from the approved list of minors. Minors may be any approved Texas State minor. Biology, Chemistry, Computer Science, Geology, Mathematics, or Physics minors are highly recommended to complement your Physical Geography Major. Other minors may be appropriate depending upon your interests and career goals. Discuss possible options with your advisor.
7. Texas State requires a minimum of 120 semester hours of coursework to graduate including:
  - a. general education core curriculum requirements;
  - b. major requirements;
  - c. minor requirements
  - d. additional College/degree requirements, which include either an additional sophomore English literature course or ENG 3303—Technical Writing and 8 hours of modern language (if students completed two years of the same modern language in high school, then no additional courses are required); and
  - e. additional elective courses, as needed, to achieve the minimum 120 hours required for graduation, of which 36 hours must be advanced (3000–4000) level courses, and at least 9 semester hours must be writing intensive (WI)

<b>Freshman</b>			
	First Semester	Hours	Second Semester
			Hours
ENG 1310	3	HIST 1310	3
US 1100	1	ENG 1320	3
POSI 2310	3	Life and Physical Sciences	3
Life and Physical Sciences	3	GEO 2410	4
MATH 1315 (or above, not MATH 1316)	3		
GEO 1309 or 1310	3		
	16		13

<b>Sophomore</b>			
	First Semester	Hours	Second Semester
			Hours
COMM 1310	3	POSI 2320	3
Select one of the following (ENG Literature):	3	Select one of the following:	3
ENG 2310		ENG 2310	
ENG 2320		ENG 2320	
ENG 2330		ENG 2330	
ENG 2340		ENG 2340	
ENG 2359		ENG 2359	

ENG 2360		ENG 2360	
Modern Language 1410 (if required), or elective		4 Modern Language 1420 (if required), or elective	4
HIST 1320		3 PHIL 1305 or 1320	3
GEO 3301		3 GEO 2426	4
		16	17
First Semester		Hours	
Second Semester		Hours	
Select one of the following:		3 Minor	6
ART 2313		Electives (as needed)	3
DAN 2313		GEO Advanced	7
MU 2313			
TH 2313			
Social and Behavioral Sciences	3		
Minor	3		
GEO Advanced	6		
	15		16
First Semester		Hours	
Second Semester		Hours	
Minor	6	Minor	3
Electives (as needed)	3	Electives (as needed)	6
GEO Advanced	6	GEO Advanced	3
	15		12

Total Hours: 120

## Certificate in Environmental Interpretation

The Environmental Interpretation Certificate provides the recipient with a relevant background in environmental interpretation to prepare students to work as interpretive guides in park and other tourism venues and work in the professional areas of public information/education in resource management agencies.

Applicants to the Environmental Interpretation Certificate program are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student in good standing.

Requirements for the Certificate (16 hours) - Students must complete the following with no grade less than a "C" and an overall average for the five classes of at least a 2.5.

GEO 2410	Introduction to Physical Geography	4
GEO 4322	Interpretive Environmental Geography	3
Select nine hours from the following:		
GEO 3313	Natural Resource Use and Management	
GEO 3325	Geomorphology	
GEO 4313	Environmental Management	
GEO 4316	Landscape Biogeography	
GEO 4309	Cultural Ecology	

Total Hours 16

## Certificate in Geographic Information Science

The Geographic Information Science Certificate provides the recipient with a working knowledge of Geographic Information Science (GISci) in sufficient detail that they are prepared for professional positions involving the theoretical and applied aspects of implementing and administering a Geographic Information Science.

To the prospective employer, the certificate is a professional endorsement that the recipient has received five university level courses on issues fundamental to the design, implementation, and management of Geographic Information Science. A formal certificate issued by the Texas State's College of Liberal Arts and a statement on the recipient's Texas State transcript recognize successful completion of the program.

Applicants to the Geographic Information Science Certificate program are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student in good standing.

Requirements for the Certificate (19-20 hours) - Student must complete the following with no grade less than a "C" and an overall average for the five classes of at least a 2.5.

GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3426	Advanced GIS	4
Select three of the following:		11-12
GEO 3411	Maps and Mapmaking	
GEO 3416	Principles of Remote Sensing	
GEO 4411	Advanced Cartographic Design	
GEO 4412	Digital Remote Sensing	
GEO 4424	GPS and GIS	
GEO 4422	Web Mapping	
GEO 4427	GIS Design and Implementation	
Total Hours		19-20

### Recommended Specializations

#### GIS

GEO 2426	Fundamentals of Geographic Information Systems
GEO 3426	Advanced GIS
GEO 4427	GIS Design and Implementation

#### Remote Sensing

GEO 3416	Principles of Remote Sensing
GEO 4412	Digital Remote Sensing

#### Cartography

GEO 3411	Maps and Mapmaking
GEO 4411	Advanced Cartographic Design
GEO 4422	Web Mapping

#### GPS

GEO 4424	GPS and GIS
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For additional information and application process, discuss with an academic advisor or refer to <http://www.geo.txstate.edu/degrees-programs/certificates.html>.

## Certificate in Location Analysis

The Location Analysis Certificate provides the recipient with a focused background to work as location analysis in the public and private sectors. Such persons analyze spatial data to identify and optimize locations for business and public activities. A formal certificate issued by the Texas State's College of Liberal Arts and a statement on the recipient's Texas State transcript recognize successful completion of the program.

Applicants to the Location Analysis Certificate program are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student in good standing.

Requirements for Certificate (16-17 hours) - Students must complete the following with no grade less than a "C" and an overall average for the five classes of at least a 2.5.

GEO 2426	Fundamentals of Geographic Information Systems	4
GEO 3310	Urban Geography	3
GEO 3323	Location Analysis	3
Select two of the following:		6-7
GEO 3303	Economic Geography	
GEO 3349	Population Geography	
GEO 3411	Maps and Mapmaking	
GEO 3426	Advanced GIS	
Total Hours		16-17

## Certificate in Water Resources Policy

The Water Resources Policy Certificate provides the recipient with a working knowledge of water resources in sufficient detail that they are prepared for professional positions involving water resources management and policy. To the prospective employer, the certificate is a professional endorsement that the recipient has received four university level courses on issues fundamental to water resources management and policy. A formal certificate issued by the Texas State's College of Liberal Arts and a statement on the recipient's Texas State transcript recognize successful completion of the program.

Applicants to the Water Resources Policy Certificate program are required to be a Texas State University Undergraduate degree seeking or post-baccalaureate student in good standing.

Requirements for Certificate (16-17 hours) - Student must complete the following with no grade less than a "C" and an overall average for the five classes of at least a 2.5.

GEO 3434	Water Resources	4
GEO 4313	Environmental Management	3
GEO 4314	River Basin Management	3
GEO 4334	Groundwater Resources	3-4
or GEOL 4421	Hydrogeology	
GEO 4341	Water Policy	3
Total Hours		16-17

For additional information and application process, discuss with an academic advisor or refer to: <http://www.geo.txstate.edu/degrees-programs/certificates.html>.

## Minor in Geography

Texas State Geography offers a wide range of content courses that can provide distinct career preparation and competitive advantages to many majors. Students pursuing a Geography minor may choose to focus their studies in these areas: Urban Planning and Land Development; Water Studies; Geographic Information Science; Regional International Studies; Physical Geography/Earth Science; Environmental Resource Management; or Cultural Geography and Demographics.

A Geography Minor requires a minimum of 19 semester hours including:

GEO 2410	Introduction to Physical Geography	4
Select one of the following:		3
GEO 1309	Introduction to Cultural Geography	
GEO 1310	World Geography	
GEO 3303	Economic Geography	
Geography electives, 9 of which must be at the advanced (3000-4000) level		12
Total Hours		19

Minors are encouraged to consult with a Geography Department Academic Advisor to select courses to design the Geography minor.

## Minor in Geology

Geology is the science and study of the solid matter of the Earth, its composition, structure, physical properties, history, and the processes that shape it. A geology minor is an ideal complement to a number of majors in the natural, social, and applied sciences.

A minor in geology requires 19 hours, including:

GEOL 1410	Physical Geology	4
GEOL 1420	Historical Geology	4
GEOL 2410	Mineralogy	4
Select at least one of the following:		4
GEOL 3400	Petrology	
GEOL 3410	Sedimentation and Stratigraphy	
GEOL 3430	Structural Geology	
GEOL 3440	Paleontology and Biostratigraphy	
GEOL 4421	Hydrogeology	
Select at least three hours from the following:		3
ANTH 3338	Geoarchaeology	
GEO 3325	Geomorphology	
GEO 4325	Fluvial Processes	
GEOL 4121	Directed Study	
GEOL 4320	Topics in Field Geology	
GEOL 4321	Directed Study	
GEOL 4421	Hydrogeology	
Total Hours		19

## Minor in Nature and Heritage Tourism

Nature and Heritage Tourism is the most rapidly growing segment of the overall tourism industry. The minor in Nature and Heritage Tourism concentrates on planning, development and management of nature and heritage tourism activities that have a strong learning content. A minor in

Nature and Heritage Tourism requires a minimum of 18 semester hours of coursework:

### Core Courses

NHT 4301	Planning and Development of Nature and Heritage Tourism	3
NHT 4302	Internship in Nature and Heritage Tourism	3
GEO 4322	Interpretive Environmental Geography	3
GEO 4326	Parks and Protected Places	3

### Electives

Select six hours from the following (from at least two departments outside of the student's major department):

AG 3318	Agricultural Business Management	
AG 3321	Range Management	
AG 3351	Agricultural Marketing and Sales	
AG 3426	Soil Science I	
AG 3427	Soil Science II	
AG 4383	Agricultural Resource Economics	
ANTH 2415	Introduction to Archaeology	
ANTH 3301	Principles of Cultural Anthropology	
ANTH 3306	World Prehistory	
ANTH 3314	Latin American Cultures	
ANTH 3315	Archaeology of the Southwest	
ANTH 3318	Texas Archaeology	
ANTH 3324	Mexican American Culture	
ANTH 3332	Myths and Moundbuilders	
ANTH 3333	North American Indians	
ANTH 3345	Archaeology of Mexico	
ANTH 3347	Archaeology of North America	
ANTH 4320	Rise of Civilization	
ANTH 4630	Archaeological Field School	
BIO 4304	Wildlife and Recreation: Impact, Policy, and Management	
BIO 4305	Nature Study	
BIO 4410	Field Biology of Plants	
BIO 4415	Ichthyology	
BIO 4416	General Ecology	
BIO 4420	Natural History of the Vertebrates	
BIO 4421	Ornithology	
BIO 4422	Mammalogy	
BIO 4423	Wildlife Management	
BIO 4434	Herpetology	
ENG 3345	Southwestern Studies I: Defining the Region	
ENG 3346	Southwestern Studies II: Consequences of Region	
ENG 4325	Literature of the Southwest	
GEO 2410	Introduction to Physical Geography	
GEO 3307	Geography of Europe	
GEO 3308	Latin America	
GEO 3309	United States and Canada	
GEO 3313	Natural Resource Use and Management	
GEO 3325	Geomorphology	
GEO 3328	Geography of North Africa and the Middle East	
GEO 3329	Geography of Texas	

GEO 3332	Geography of South and Southeast Asia
GEO 3333	Geography of China and Japan
GEO 3335	Oceanography
GEO 3411	Maps and Mapmaking
GEO 4306	Geography of the Southwest
GEO 4313	Environmental Management
GEO 4314	River Basin Management
GEO 4316	Landscape Biogeography
GEO 4328	Geography of the Russian Realm
GEO 4390	Independent Study
GEO 4430	Field Methods
GEOL 1410	Physical Geology
GEOL 1420	Historical Geology
GEOL 3410	Sedimentation and Stratigraphy
GEOL 4320	Topics in Field Geology
HIST 3353	The Greater Southwest
HIST 3370	The Tools and Techniques of Historical Research and Writing
HIST 3372	Texas History: A Survey
HIST 4372	Mexican American History
MGT 3303	Management of Organizations
MKT 3343	Principles of Marketing
PFW 1190A	Canoeing
PFW 1190F	Beginning Scuba
PFW 1201	Advanced Scuba Diving
PFW 1204	Underwater Photography
REC 1310	Introduction to Recreation and Leisure Services
REC 1330	Leisure and Outdoor Recreation
REC 3340	Design and Maintenance of Recreational Facilities
REC 3351	Evaluation of Leisure Service Programming
REC 4335	Outdoor Recreation Programming
SOCI 3340	Sociology of Sport and Leisure
SOCI 3366	Folkways and Folklore: An Introduction

Total Hours

18

## Department of History

Taylor-Murphy Building Room 202

T: 512.245.2142 F: 512.245.3043

www.txstate.edu/history (<http://www.txstate.edu/history>)

As an undergraduate major, the discipline of History provides students with the knowledge and skills necessary to participate in our increasingly global society and economy. Emphasizing societies, cultures, and politics in the United States and around the world, the History Program helps to impart understandings of human motivation and interaction which form an essential background for all current activities whether they are in the realm of business, law, journalism, politics, education, or public history (i.e. National Park Service, museum work, historical restoration, etc.) In addition to gaining knowledge in their subject areas, students also develop skills in intensive reading and expository writing, as well as in logical and analytical thinking. As a consequence, students acquire a variety of skills which make them highly adaptable and valued by today's employers.

## Academic Advising

The Department of History provides extensive academic advising services which include both group and individual advising. Through these sessions, the academic advisor can offer detailed program and course information which can help students successfully complete their graduation requirements in a timely manner. Because of this, all History majors are encouraged to seek advice about program requirements and course selection each semester. To schedule an appointment, please contact the History Department Office.

## Bachelor of Arts (B.A.)

- Major in History (p. 405)
- Major in History (Single Field Teacher Certification in History, Grades 7-12) (p. 407)
- Major in History (Two Fields Teacher Certification in History, Grades 7-12) (p. 417)
- Major in History (Teacher Certification in Social Studies, Grades 7-12: Geography Minor and Political Science Third Field) (p. 410)
- Major in History (Teacher Certification in Social Studies, Grades 7-12: Political Science Minor and Geography Third Field) (p. 413)

## Minors

- History (p. 419)
- Second Teaching Field in History (Grades 7-12) (p. 421)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in History (HIST)

HIST 2310 or HIST 2311 and HIST 2320 or HIST 2312 are open to all students regardless of classification. However, it must be understood that HIST 2310 or HIST 2311 and HIST 2320 or HIST 2312 will not satisfy the legislative requirement in American history. Students majoring in fields other than history would be well advised to begin with HIST 1310 or HIST 1320.

### HIST 1310. History of the United States to 1877.

A general survey of the history of the United States from its settlement to the end of Reconstruction. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** American History Core 060|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 1301

### HIST 1320. History of the United States, 1877 to Date.

A general survey of the history of the United States from Reconstruction to present. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** American History Core 060|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 1302



**HIST 2310. Western Civilization to 1715.**

A general survey of western civilization from earliest times to the end of the 17th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2311

**HIST 2311. History of World Civilization to the 17th Century.**

A general survey of world civilization from the earliest times to the 17th Century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2321

**HIST 2312. History of World Civilization from the 17th Century.**

A general survey of world civilization from the 17th Century to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2322

**HIST 2320. Western Civilization, 1715 to Date.**

A general survey of western civilization from the Treaty of Utrecht to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2312

**HIST 3310. History of Europe, 1815-1919.**

The background, course, and results of World War I, with emphasis on imperialism, diplomatic alliances, and nationalistic rivalries from the Congress of Vienna to the Paris peace settlements. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3311. History of Europe Since 1919.**

The rise of Communism, Fascism, and Nazism; the background of World War II, and the post-war problems of peace. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3312. Renaissance and Reformation.**

The cultural, political, and economic changes that marked the transition from the Middle Ages in Europe to the modern period; special attention to the decline of the medieval church and the Protestant revolt. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3313. Europe During the Old Regime, 1600-1760.**

A study of European society and institutions in the 17th and 18th centuries with special attention to the development of absolute and constitutional monarchy, the scientific revolution, and the intellectual ferment of the Enlightenment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3314. Revolutionary Europe, 1760-1815.**

A study of the dynamics of revolutionary change in France and the rest of the European continent from the period of the Seven Years War through the fall of Napoleon Bonaparte. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3315. History of England to 1603.**

The development of the English nation from prehistoric times to the end of the Tudor Dynasty in 1603. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3316. History of England Since 1603.**

The English nation and the British Empire from 1603 through the modern era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3319. Colonial History of Brazil.**

The development of the Portuguese society in South America from the sixteenth century until 1822. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3320. History of Mexico.**

A survey of the national period of Mexican history from the independence movement to the present. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3322. Colonial History of Latin America to 1828.**

A study of the colonial period of Latin America from the early Spanish and Portuguese colonization to the beginning of the period of independence. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3324. Latin America from Independence to Present.**

This course examines the history of Latin America from independence to present. Explores the challenges of formation and consolidation of the new states; of economic policy and development; the rise of Populism and the age of reforms; revolutions and revolutionary movements; and present challenges. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325F. Militarism in Latin America.**

An in-depth survey of militarism and the causes and processes of transition to democracy in Latin America. The course will examine the major characteristics of different types of military regimes in Latin America with particular attention to the military regimes in Argentina, Chile, Brazil, and Uruguay, and their relinquishing of power for democratic transitions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325G. Modern Revolutions in Latin American History.**

This course will focus on the historical antecedents and events surrounding the Mexican, Guatemalan, Cuban, Chilean, and Nicaraguan revolutions. The purpose is to analyze these five revolutions and to come to an understanding of the current problems facing Latin America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325H. Development and Underdevelopment in Latin America.**

This topic course discusses the economic history of Latin America from the colonial period to present and addresses the major phases of its development and the characteristics of its economics. It further discusses the several economic models that at different periods guided these economies and the differentiation of these economies at the end of the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325I. Resistance and Rebellion in Colonial Latin America.**

This research-based course analyzes the political dynamics of resistance, rebellion, and social control within Latin American colonial societies, from the pax colonial of the seventeenth century to the Age of Andean Insurrection of the second half of the eighteenth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3326. The Southern Cone of Latin America.**

A topical survey of Argentina, Chile, Brazil, and Uruguay which stresses the political balance, geopolitical interests, and forces of commonality and division that have influenced this region since the colonial period. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3327. History of Mexico to 1848.**

A survey of Mexico from prehistoric times to the Treaty of Guadalupe Hidalgo. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3329. Spanish Borderlands, 1521-1821.**

A survey of the social, economic and political development of the frontier regions of Spain's empire in North America. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3340. History of the United States, 1877-1914.**

A survey of American history from the end of Reconstruction to the outbreak of World War I with an emphasis on the pertinent historical literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3341. History of the United States, 1914-1945.**

The study of American history from World War I through World War II with an emphasis on the pertinent historical literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3342. Social and Intellectual History of the United States, 1607-1865.**

A history of American culture, with emphasis on the development of religious, political, social, and philosophical ideas through the Civil War. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3343. Social and Intellectual History of the United States Since 1865.**

A study of the development of the United States after 1865, with emphasis on the social, political, economic, aesthetic, and philosophical ideas that have influenced contemporary American culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3344. Economic History of the United States.**

Economic history of the United States from the colonial times to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3346. The Civil War and Reconstruction.**

The history of the United States from the Compromise of 1850 through the election of 1876. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3349. The Constitution of the United States.**

An intensive study of the origin and development of the Constitution of the United States. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3352. Western America.**

A general examination of the Trans-Mississippi West, its major cultural, economic, political, and social frontiers, and its development as a region and as a national component, from 1803 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3353. The Greater Southwest.**

A general examination of the region including Texas, California, and the states dominated geographically by the Great Basin, the Southern Rockies, and the Sonoran Desert, from the earliest European contacts to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3357. History of U.S. Foreign Relations.**

A study of American diplomacy since the Civil War. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3358. The Military History of the Western World.**

A history of military institutions of the western world, with emphasis on the development of military thought, technology, and application from the earliest period to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3359. African American History.**

A survey of African-American history, 1619 to the present. Emphases include African and European backgrounds, hemispheric slavery, slavery in early America, the antislavery movement, the Civil War and Reconstruction, post-Reconstruction culture and society, and Civil Rights movement. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3361. The Napoleonic Wars.**

Examines the origin, development and consequences of the Napoleonic Wars, 1754 to 1871. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3363. Early American History to 1763.**

An intensive study of selected topics in the history of the settlement and expansion of British North America, including the development of the social, economic, and political life of the American colonies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3365. The Early American Republic.**

History of the early national era, 1788-1828, with emphasis on development of the first party system in American politics, the social and economic issues, the expansion of southern slavery, and the western frontier. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368A. Introduction to Public History.**

A topic addressing the definition, evolution, and philosophy of public history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368B. Courts and Society in Early America.**

A survey of American courts and society from its European antecedents to the mid-nineteenth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368D. Everyday America ca. 1900.**

An interdisciplinary review of U.S. History during the 1880-1920 era that considers the visual arts, architecture, material culture, technology, leisure and work of Americans at the turn of the 20th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368E. United States Westward Expansionism, 1776-1861.**

This course examines the expansion of the United State across the North American continent from the time of the American Revolution to the beginning of the Civil War. Special attention will be devoted to the Louisiana Purchase, the annexation of Texas, the Mexican Cession of 1848, and the Gadsden Purchase. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368F. History of U.S. Foreign Policy-Making in the Muslim World.**

A lecture and readings-based course in the history of U.S. foreign policy-making in the Muslim Middle East. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368H. LBJ's America.**

This is a team-taught course covering LBJ's evolution as politician. Beginning with LBJ's early career, students will learn the New Deal/Rooseveltian roots of LBJ's political philosophy. Second, students will discuss LBJ's presidency, Great Society, and Civil Rights legislation. Lastly, students will study LBJ's Cold War politics, particularly the Vietnam conflict. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368J. The Space Race.**

This course traces the history of space exploration, focusing on the competition between the United States and Russia since the launch of Sputnik in 1957. Themes include the creation and role of NASA, the scientific and economic impact of rocket science, and the political use of the space program. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368K. American Cultural History.**

This course examines the history of specific expressive, popular, and symbolic forms of US culture in shaping American intellectual life, aesthetics, and material culture during the post-Civil War – mid 20th century period. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368L. History of Mexican American Music in the Southwest.**

This class will explore Mexican American Music in all of its forms as it has developed in the American Southwest. The course will begin with an historical review of the region. It will then explore, from Islamic Spain to the contemporary Southwest, the development of musical language, styles and fusions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368M. Popular Music and Social Movements in 20th Century America.**

The examination of music as both a reflection of historical trends and a tool of social change will illuminate the relationship between music, culture, politics, and protest movements in 20th-century American history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368N. History of U.S. Foreign Policy in Indochina.**

This is an advanced course on the history of U.S. foreign policy in Indochina, especially Vietnam and Cambodia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368O. U.S. Foreign Relations from Revolution to Reconstruction.**

This course in diplomatic history explores the philosophical, social, and legal aspects of the diplomatic relations of the United States, and development of the leading principles of foreign policy in the early American republic. These studies are then set within the context of analysis via several geo-political models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368P. The U.S. and Britain in the Sixties.**

This course explores the political, social and cultural changes experienced by Americans and Britons during the "long 1960s" (1955-1975). Students will examine key events in each country separately before focusing on the commonalities and differences. Special attention will be paid to the transfer of movements across the Atlantic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368Q. History of Professional Baseball, 1869-1994.**

This course examines how the National Pastime, viewed as a game rather than a business by spectators and participants, not only reflected American culture but also represented the American Dream to both native born and immigrant. Major themes to be addressed include immigration, racism, westward migration, and owner/player/government relations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368R. History of Rock and Roll.**

This course traces the various ethnic, social, cultural, political, economic, and demographic forces in American society that helped shape Rock & Roll music. Students will also explore how this uniquely American cultural idiom mirrors the historical evolution of the United States in the second half of the twentieth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368S. History of Music and Race in the American South.**

This course examines how the complex musical landscape of the American South, including blues, gospel, jazz, folk, country, bluegrass, Cajun, zydeco, rockabilly, and others, reflects the interaction of larger social, historical, ethnic, racial, political, and economic forces in that region from the eighteenth century to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 3368T. American Songbook.**

This course examines the music of American from the colonial era to the 1960s. By exploring songs as primary source documents, students will analyze lyrical themes that illuminate historical trends from diverse perspectives, Beginning with British America, the course traces musical contributions of many demographic groups that comprise American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368U. U.S. - Cuban Relations.**

This course will provide students with an overview of relations between the United States and Cuba from 1865 to 2006. Themes include economic, political, military, and cultural inter-development through Cuban independence movements, U.S. military occupation, shared cultural and economic movements, and the growing animosity from Castro's Revolution to recent years. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368X. Organization of the Modern American State.**

This course analyzes changes in political culture, policies, and organizational dynamics that shaped the American state, 1870 - Present. It examines how interest groups, experts, and bureaucrats helped transform a weak American state into one that affects most parts of citizens' daily lives, despite America's traditional aversion to centralized power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3369Y. Black Women and Black Protest in America.**

This course will trace the participation of Black women in every stage of Black protest in America from slavery and Reconstruction to Civil Rights and the Black Panthers. Through autobiographies, memoirs, film, literature, and monographs we will explore particular forms of Black female resistance, the unique concerns of Black female organizations, and the contradictions and successes Black women face within African-American freedom struggles. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3369Z. Immigration and Ethnicity.**

This course will focus on the history of immigration into North America from colonial times to the present. It will examine how and why various individuals and groups emigrated to America, as well as what experiences they had after arriving. This course will look at how both immigrants and native-born Americans struggled to reconcile often conflicting notions of ethnic identity and national loyalty. Finally, this course will help students evaluate the impact of immigration and ethnicity on American society. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3370. The Tools and Techniques of Historical Research and Writing.**

A survey of traditional research methodology and the basic techniques in quantitative historical research. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3371A. Conflict and Creativity in U.S. Urban and Suburban History.**

This course surveys the changing functions, scale, and quality of urban society in the United States. Special emphasis will be placed upon urban politics, or how changing demographics, physical environments, public and private institutions, and economies both grew out of and gave rise to political tensions between Americans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3371B. Health and Illness in American History.**

From concerns epidemics might undermine proper American racial orders to anxieties over democracy and health care financing (Obamacare), health and illness have reflected and shaped the ways Americans understand themselves, their policies, and their societies. This course examines two centuries of this complicated and fascinating history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3372. Texas History: A Survey.**

A one-semester survey of Texas History which will emphasize political, economic and social development from prehistory to the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3373A. Women as a Force in American Society.**

This course surveys the roles of women as a force in American history from the colonial era to modern times. Particular emphasis is given to the role of women in religious, social, and political movements throughout American history. The public activities and personal choices available to women are analyzed within the context of being female in a patriarchal society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3373B. U.S. Women's History.**

Study of the diversity of women's experiences in the United States from 1890 to the present. The social, economic, political, and intellectual realms of women's worlds, both public and private, are explored. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 3373C. The History of Rural Women.**

This course surveys rural women in the United States from the founding of the nation to the present. Topics include women's work in the agricultural economy, female influence in community and agrarian organizations, and the relationship between rural and government services from regional, national, and global perspectives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3374A. History of Christianity 1300-1700.**

This course examines selected individuals and movements that embody key concerns of Christians during the most tumultuous era in Western Church history. The course begins in the fourteenth century so that students may gain perspective on reform efforts predating, and decisively influencing, the break with Rome catalyzed by Martin Luther

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3374B. American Religious History.**

This course in religious history explores the theological, social, and political evolution of religions and the development of the leading trends in religious beliefs and practices in the United States from pre-European encounters to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3374C. History of Religion in India.**

This course will focus on the historical development of religious traditions within India including Buddhist, Christian, Hindu, Islamic, Jain, Sikh, and Vedic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3375A. American Labor History, 1877-1945.**

Examine the history of American labor in the era of the Industrial Revolution from the end of Reconstruction through World War II. Study the experiences of organized and unorganized workers in the context of their social, cultural, political, and workplace environments and investigate the role of labor in shaping American industrial society and institutions. Also, the course will examine managerial and public policy initiatives designed to promote labor peace and stabilize industrial relations. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3377. History of Country Music.**

This course examines the evolution of country music and how it reflects larger social, cultural, historical economic, political, ethnic, and demographic changes taking place within American society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3378. History of the Blues.**

This course examines the evolution of the blues and other forms of African-American music throughout American history, with an emphasis on how blues music reflects the rich and complex traditions of the African-American community and helped give birth to rock & roll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3380. The Desegregation of the South from 1944-1970.**

Course will address the history and the historiography of the desegregation of the South from 1944-1970. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3381. Democracy and Education.**

This course provides an overview of the relationship (and tension) between democracy and education in the U.S. between 1865 and 1930, when emancipation, westward expansion, rural poverty, and growing immigrant and working-class populations motivated reassessment and reform of public education in an attempt to meet individual and societal needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4300. Social Studies Resources and Practices.**

This course is required for those students seeking the Social Studies Composite. This is an interdisciplinary methods course designed for students planning to teach Social Studies at the secondary level. This course will examine the philosophy behind the social sciences as well as integrate instructional techniques of History, Economics, Political Science, and Geography. Prerequisite: Departmental approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4303. Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C..**

A survey of Greek and Hellenistic history from Mycenaean civilization to the Roman conquest of the Eastern Mediterranean. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4304. Ancient Rome and the Mediterranean 500 B.C. to 500 A.D..**

A survey of Roman History from the Republican period to the fall of the Western Empire with emphasis on its Mediterranean milieu. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4307. Medieval European History, 300-1400.**

A study of the Latin West and the Byzantine East during the Middle Ages with emphasis on the continuity of Greco-Roman culture as it encounters Islam and the Barbarians. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4317. Tudor-Stuart England, 1485-1689.**

A study of the constitutional, social, political, and religious developments in England during the Tudor-Stuart dynasties. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318A. Daily Life in the Roman Empire.**

A survey of the various aspects of daily life of the ancient Romans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318G. Western Europe and the Development of Modern Africa.**

The course will examine the impact of western Europe on the development of African countries from c1640 to present. Themes to be considered include: the impact of the slave trade, the Mfecane, European penetration and conquest of Africa, African resistance, the varieties of colonialism and the legacy of the same. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318H. Everyday Life in Europe from the Reformation through World War II.**

A social history of Europe from 1500 to 1950, which allows students to relate the "great events" of history to the lives of ordinary people. Explores developments in family life and life-cycle; changes in material culture, including food, drink, clothing, housing; and the evolution of social and cultural issues such as crime, poverty, sexuality, spiritual life and popular entertainment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318J. The Arab-Israeli Wars, 1948-1996.**

Highlights the genesis of the Arab-Israeli wars from the inception of the Jewish State in 1948 to most recent developments. Will examine the seething nationalism, religious fervor, political and economic agendas, and military developments that fanned the flames of open hostilities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318O. History of Modern Spain.**

The course traces the history of Spain from the time of Ferdinand and Isabella to the rise of the European Union. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318P. France and the Modern World.**

A survey of important phenomena in nineteenth and twentieth-century French history that have had an impact on the development of the modern world. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318Q. History of Early Modern Spain.**

Through readings, lectures, class discussions, critical film viewing, and writing assignments, this course seeks to familiarize students with the history of Early Modern Spain and its transoceanic empire between the late fifteenth century and the early nineteenth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318R. Ancient and Medieval Spain.**

Through lectures, class discussions, and critical reading, film viewing, and writing assignments, this course seeks to familiarize students with the history of Spain between approximately 800 BC and AD 1500, with an emphasis on the legacy transmitted by the successive civilizations that flourished on Spanish soil during that period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318S. Britain and the World.**

Mainstream British history still neglects the world's influence upon domestic developments, and British overseas history remains largely confined to the study of the British Empire. This course takes a broader approach, investigating Britain's interactions with the wider world from 1688 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318T. Roman and Medieval Britain.**

This course will investigate Roman and Medieval history related to the city of Chester, the Welsh Marches and the Northwest of England. Through readings, classroom discussions, close analysis of photos and videos of the sites, this course will detail the history of this problematic and often rebellious region. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318U. Industrial Britain.**

This course will examine the physical impact that industrialization had on the Great Britain - bridges, canals, factories - and the cultural/social effects on factory and seaside resort towns and ocean ports. The class will address what role industrialization played in Britain becoming world industrial and imperial power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318V. The History of Modern Britain.**

This course examines the history of imperial Britain from the early nineteenth century to the present day. Students will analyze the cultural and intellectual foundations of modern British society, including the growth of its industrial economy, the development of representative politics, and the evolution of its relationship with its empire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**HIST 4320. Origins of Christianity.**

A survey of the development of the institutional church from the founding of the first primitive communities of believers to the rending of Christian unity in the 16th century. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4325. Islamic History to 1798.**

This course explores the history and culture of the Arab and Muslim peoples in the Middle East and North Africa from the late 6th century to Napoleon's invasion of Egypt in 1798. Emphasis is placed on the interrelationships of indigenous socio-economic structures and intellectual developments in Islamic theology and Shar' a law. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4326. The Modern Middle East.**

This course emphasizes economic social and intellectual developments in the Arab Middle East and North Africa in the 19th and 20th centuries. Some attention will be paid to Iran in the period after World War II. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4327. The Problem of Palestine.**

Examination of Arab Palestine. Ottoman records to 1914, Israel's creation in 1948, and Jordan's loss of control of the West Bank and Gaza in 1967 will be surveyed. The Palestinian Diaspora, Yasir Arafat's leadership, and the "Intifada," also will be examined. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4328. History of India.**

This course is an introduction to the history of India from ancient times to the creation of the modern nation-state of India. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4333. The History of Russia and Eurasia to 1917.**

A survey of Kievan Rus, Muscovy, and the Russian Empire to 1917. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4334. The History of Russia and Eurasia from 1917 to Present.**

A survey of the history of the former Soviet Union and post-Soviet society from 1917 to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4335. 20TH CENT EAST EUR.**

A survey of the history of Eastern Europe. May be repeated with a different emphasis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4336. Germany from 1815 to Present.**

The political, social, economic, and cultural development of Germany since Napoleonic times. Includes the Confederation period, unification under Bismarck, the Second Empire, National Socialism, and the post-war period. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4337. Germany and National Socialism, 1918-1945.**

Survey of German history and the Nazi movement. Topics covered will include the Weimar Republic, Hitler's rise to power, everyday life in Nazi Germany and in peace and war and the Holocaust. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4343. Modern China, 1600 to the Present.**

A survey of the political, social, economic, and intellectual history of China from 1600 to the present. Emphasis on the issues of domestic troubles and external aggression, and on the revolutionary changes in the 19th and 20th centuries. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4344. Modern Japan, 1600-Present.**

A survey of the political, social, economic, and intellectual history of Japan from 1600 to the present. Focus on the radical changes in the state, society, and economy in the 19th and 20th centuries and on the impact of these changes on Japan's status in the world today. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4346. Modern Korea.**

This course is a survey of the political, social, economic, and intellectual history of modern Korea, focusing on the external aggression and internal transformation between 1876 and 1910, the impact of the Japanese rule, the split into two Koreas in 1945, and the North/South developments and interactions since then. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**HIST 4347. History of Hong Kong.**

This course is a survey of the political, social, economic, and intellectual history of Hong Kong from 1842 to the present. Focus is on British colonial rule, the Handover in 1997, and the current status of the Hong Kong Special Administrative Region of the People's Republic of China

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4348. Mahatma Gandhi in World History.**

Mahatma Gandhi is recognized as one of the major figures of the modern era. This course will offer students the opportunity to explore Gandhi's leadership of the movement against British colonialism in India and the legacy of Gandhi's strategies of non-violent non-cooperation in other political movements of the twentieth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350A. Slavery and Emancipation in the Americas.**

An Atlantic and continental perspective of the institutionalization of the slave trade, the adaptation of the plantation system and the evolution of slave laws, the various models of emancipation in the Americas, followed by the modified forms of indigenous and foreign slave labor adopted in the Americas. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350B. Origins of the Modern Global Economic System.**

An interdisciplinary and inter-cultural perspective that examines the rise and fall of the economic system of the thirteenth century centered in Asia and the reasons why the system was eclipsed in the fifteenth century by a new economic system centered in Europe. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350D. Empire and Identity in Central Asia.**

This course explores the historical development of local, ethnic, and national identity in Central Asia from the 13th-century Mongol conquest to the present. The course concludes with explorations of the transnational links within the region and the challenges and possibilities for the five Central Asian republics in the post-Soviet era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350E. Gender in Latin American History.**

This course surveys the role of gender in Latin American history, from pre-conquest to the present. It analyzes Latin American politics, culture, and economics, and gives particular attention to the creation and resistance of social norms. The course strengthens analytical skills through extensive discussion and writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350F. Postwar Japan.**

This course explores Japan's development from the 1940s through the 1970s. Emphasis is on the continuities and discontinuities from the wartime to the postwar regime, American influence on policies and discourses on post-occupation society, the legacies of the war in culture and society, and the repercussions of economic affluence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350J. History and Culture of Modern India.**

The course features an intensive study of the history of modern India. Course coverage includes the Mughal Empire, British Colonialism, Mahatma Gandhi and the Indian Independence Movement, and the establishment of the nations of India and Pakistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350K. Gender & Militarization in the Arab World.**

For women and men in the modern Arab world, national identity and sovereignty – or civil war – influence how they live. This class takes advantage of cutting-edge scholarship on the twentieth-century Middle East to hone students' skills in historical analysis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350L. History of Southeast Asia.**

Southeast Asia today includes eleven countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar (Burma), Philippines, Singapore, Thailand, East Timor, and Vietnam. This course will explore the region from its earliest origins through the periods of European colonialism, nationalism, revolution, and the transformation of old societies into new nations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350N. The 20th Century Middle East: Syria, Iraq, and Palestine.**

This upper-division course considers three of the nation-states under League of Nations mandates at the beginning of the twentieth century: Syria, Iraq, and Palestine. Students read a general history of the region in support of additional readings that offer in-depth discussion of specific issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 43500. History of Indochina.**

This course explores the themes of diffusion, acculturation, hybridity, accommodation, and resistance in the history of Mainland Southeast Asia (also known as Indochina). The region, which has been the site of significant interaction with the larger world since ancient times, consists of Thailand, Cambodia, Laos, Vietnam, peninsular Malaysia, and Singapore. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350P. European Colonial.**

This readings course explores the development of worldwide colonial systems since the fifteenth century. Emphasis will be given to how native peoples responded to European attempts to introduce economic, political, and cultural prerogatives in a variety of world settings such as South and Southeast Asia and North and South America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 4350Q. Pirates of the Mediterranean.**

This course explores the history and culture of smugglers in the eighteenth-century Mediterranean, and the challenges they posed for states' interests in the region. Emphasis is placed on eighteenth-century US diplomatic relations with the Barbary states. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350R. Workers and Work in the Arab World.**

Of 255 million people in 22 predominantly-Arab countries in North Africa and the Middle East, over the past 150 years, most have worked at some kind of job or another. In this course we will consider how labor politics introduce state regulations to gender, national and sexual identities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350S. Piracy Through the Ages.**

An activity based on greed, and sometimes survival, piracy has existed since humans took to the seas. This course investigates the global history of piracy beginning with the Vikings. The history of piracy in the Caribbean, Asia, and the Mediterranean will be covered and compared to the piracy of today. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350U. Slavery: Past and Present.**

This course explores the significance of slavery in American history from the colonial period to today, from the emergence of racial slavery in the 17th century to human trafficking now. We will read the works of historians, journalists, and activists, as well as personal narratives of enslaved peoples. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350V. History of Pakistan.**

This course is an introduction to the history and culture of Pakistan. Broadly covering the 5000 year history of the region, from origins, the introduction of Islam and creation of the modern state, the course focuses on the cultural developments of the region, along with highlights of major political developments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350W. The Great War.**

This course will cover the history of the First World War. Co-taught, the class will examine the following topics: diplomatic origins, course of the war on the battlefield, changes in military technology, effect of Total War on the home front, propaganda, and legacy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350X. Peace and Nonviolence Movements.**

This course explores the origins, development, and impact of peace and nonviolence movements globally. It will examine the roles that religion, class, gender, race, ethnicity, and nationalism have played in shaping social and political perceptions of injustice and public attitudes toward movement goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4360. History of the United States, 1945 to 1968.**

A study of the interplay of economic, social, political, and cultural forces that shaped American society from the end of World War II to the presidential election of 1968. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4361. History of the United States, 1968 to the Present.**

A study of the interplay of economic, social, political and cultural forces that have shaped American society from 1968 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4363. Riddles of the Civil War.**

This course examines many unanswered questions or "riddles" of the American Civil War. Topics include, "Why Lincoln Chose to Invade," "Jomini, the Generals: Strategy and Tactics," "Lincoln, the Constitution and the War," "Interior Lines: Strategic Casual Availability," etc. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4364. Military History of the United States.**

A specialized study of the military problems of the United States since 1789 and their impact upon non-military problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**HIST 4365. Early American History: The Revolutionary Period, 1763-1789.**

A history of the American people during the age of the American Revolution, from the beginning of the crisis with Britain to the adoption of the Constitution. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4367. Antebellum America.**

A survey of conflicting American attitudes about the desirability of a strong central government, rapid economic growth, aggressive national expansion, and human slavery in a democratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4368. War and Society.**

A study of the relationship of war with social and cultural institutions from the 18th century to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4369. Introduction to Ethnohistory.**

This course familiarizes students with the ethnohistorical method, a multidisciplinary approach to the study of the historical, social, and cultural processes undergone by indigenous peoples before, during, and after contact with nation-states. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4371. Introduction to American Indian History.**

This course promotes understanding of the role played by the native peoples of North America in the history of the United States. Among the subjects to be covered through lectures and discussions: initial migrations and cultural development; impact of European conquest; adaptation; removal and reservation life; 20th century adjustments. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4372. Mexican American History.**

A survey of the political, economic, and social-cultural role of the Mexican-American in United States from the era of Spanish colonization to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4373. Economic and Social History of the Americas.**

Comparative history of the Americas with special attention to the United States, Canada, and Mexico. Explores different patterns of economic growth and their impact on societies and international relations. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4375A. Critical Issues in Texas History.**

Emphasis will be on significant critical issues in Texas history. Topics will include: Mexican independence, Texas and U.S. expansion, the Texas Revolution and the Mexican War, the Civil War and Reconstruction, Spindletop, the Depression and WWII, and the rise of urban, high-tech Texas. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4375B. African-American Experience in Texas.**

People of African ancestry have played a role in Texas history since Estebanico accompanied Cabeza de Vaca in exploring the region in the 1530s. As slaves, soldiers, and cowboys, Afro-Texans have participated in the state's development while being at the center of controversies regarding rights, racemixing and economic opportunity. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4376. The History of Texas Music.**

Examination of the evolution of music in Texas and the American Southwest, emphasizing how music reflects the richly diverse ethnic and cultural heritage of the region. It also considers the importance of ethnic identity and other social, political, and economic factors in shaping the Southwest, its people, and its music. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4380. Historical Resources and Practices.**

This course is required for students seeking teacher certification in History. This course is an introductory methods course designed to familiarize students with general historical practice and its application in secondary teaching. Prerequisite: Departmental approval required. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4388. Problems in History.**

This is an independent study course open to advanced students on an individual basis. Repeatable for credit with different emphasis. Prerequisite: Approval of the Department Chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4390. History Practicum.**

Researching, Writing, and Publishing Local History. This course will involve students in researching, writing, and publishing short historical guidebooks to sites/areas such as San Marcos, San Antonio, Fredericksburg, etc. Using desk-top publishing techniques, which are to be taught, the short (24-48 pages) guidebooks will be produced and marketed by the class. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4399. Senior Seminar.**

This course is required for History majors not seeking teaching certification. In this course students refine skills and techniques essential to the historical profession. Students analyze primary and secondary sources, apply methods, and write a term paper. Prerequisite: 24 semester credit hours in History with a grade point average of at least 2.25 in those hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

# Bachelor of Arts (B.A.) Major in History

**Minimum required: 120 semester hours**

## General Requirements

- The major requires 33 hours, including:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2310	Western Civilization to 1715	3
or HIST 2311	History of World Civilization to the 17th Century	
HIST 2320	Western Civilization, 1715 to Date	3
or HIST 2312	History of World Civilization from the 17th Century	
HIST 4399	Senior Seminar	3
Advanced HIST electives <sup>1</sup>		18
<b>Total Hours</b>		<b>33</b>

<sup>1</sup> In choosing advanced History electives, students are required to complete one course from Group A (World History), one course from Group B (European History), one course from Group C (U.S. History), and three courses from any Group as long as no more than three courses are taken from any one group. (See Group lists below).

- Majors must satisfy general education core curriculum and B.A. requirements.
- Majors must complete an approved minor. See minors in the Degrees and Programs section of this catalog.
- The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the 120 and/or 36 advanced hours requirement.

<b>Freshman</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
ENG 1310	3	ENG 1320	3
US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2320	3
MATH 1312 (or higher)	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320	3
		<b>14</b>	<b>16</b>

<b>Sophomore</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
COMM 1310	3	Select one of the following:	3
Select one of the following (English Literature):	3	ENG 2310	
ENG 2310		ENG 2320	

ENG 2320	ENG 2330	
ENG 2330	ENG 2340	
ENG 2340	ENG 2359	
ENG 2359	ENG 2360	
ENG 2360	Modern Language 2320	3
Modern Language 2310	3 HIST 2310 or 2311	3
HIST 1320	3 Life and Physical Sciences	3
Social and Behavioral Sciences	3 Minor or Advanced Elective	3

<b>Junior</b>		
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>
Select one of the following:	3 HIST Advanced Group electives	6
ART 2313	B.A. Science	3-4
DAN 2313	Minor	6
MU 2313		
TH 2313		
Life and Physical Sciences	3	
HIST 2320 or 2312	3	
HIST advanced group electives	3	
Minor	3	

<b>Senior</b>		
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>
Minor or Electives as needed	3 Minor or Electives as needed	6
HIST advanced Group electives	6 HIST Advanced Group Electives	3
Minor	6 Minor	3
	HIST 4399	3
		<b>15</b>

Total Hours: 120

## HIST Advanced Group Electives

### Group A - World History

<b>Code</b>	<b>Title</b>	<b>Hours</b>
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3

HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3
HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

**Group B - European History**

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3
HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 4307	Medieval European History, 300-1400	3

HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318A	Daily Life in the Roman Empire	3
HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4318O	History of Modern Spain	3
HIST 4318P	France and the Modern World	3
HIST 4318Q	History of Early Modern Spain	3
HIST 4318R	Ancient and Medieval Spain	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4320	Origins of Christianity	3
HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4336	Germany from 1815 to Present	3
HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society	3
HIST 4388	Problems in History	3

**Group C - U.S. History**

Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3340	History of the United States, 1877-1914	3
HIST 3341	History of the United States, 1914-1945	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3
HIST 3343	Social and Intellectual History of the United States Since 1865	3
HIST 3344	Economic History of the United States	3
HIST 3346	The Civil War and Reconstruction	3
HIST 3349	The Constitution of the United States	3
HIST 3352	Western America	3
HIST 3353	The Greater Southwest	3
HIST 3357	History of U.S. Foreign Relations	3
HIST 3359	African American History	3
HIST 3363	Early American History to 1763	3
HIST 3365	The Early American Republic	3
HIST 3368A	Introduction to Public History	3
HIST 3368B	Courts and Society in Early America	3
HIST 3368D	Everyday America ca. 1900	3
HIST 3368E	United States Westward Expansionism, 1776-1861	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3
HIST 3368H	LBJ's America	3
HIST 3368J	The Space Race	3
HIST 3368K	American Cultural History	3
HIST 3368L	History of Mexican American Music in the Southwest	3

HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 3368Q	History of Professional Baseball, 1869-1994	3
HIST 3368R	History of Rock and Roll	3
HIST 3368S	History of Music and Race in the American South	3
HIST 3368T	American Songbook	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 3369Y	Black Women and Black Protest in America	3
HIST 3369Z	Immigration and Ethnicity	3
HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3
HIST 3372	Texas History: A Survey	3
HIST 3373A	Women as a Force in American Society	3
HIST 3373B	U.S. Women's History	3
HIST 3373C	The History of Rural Women	3
HIST 3375A	American Labor History, 1877-1945	3
HIST 3377	History of Country Music	3
HIST 3378	History of the Blues	3
HIST 3380	The Desegregation of the South from 1944-1970	3
HIST 3381	Democracy and Education	3
HIST 4350W	The Great War	3
HIST 4360	History of the United States, 1945 to 1968	3
HIST 4361	History of the United States, 1968 to the Present	3
HIST 4363	Riddles of the Civil War	3
HIST 4364	Military History of the United States	3
HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 4367	Antebellum America	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4371	Introduction to American Indian History	3
HIST 4372	Mexican American History	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4375A	Critical Issues in Texas History	3
HIST 4375B	African-American Experience in Texas	3
HIST 4376	The History of Texas Music	3
HIST 4388	Problems in History	3
HIST 4390	History Practicum	3

### Group D - History Capstone and Teacher Certification Preparation

Code	Title	Hours
HIST 4300	Social Studies Resources and Practices	3
HIST 4380	Historical Resources and Practices	3
HIST 4399	Senior Seminar	3

<sup>1</sup> Course allowable for credit in more than one group. Such courses may not be taken to satisfy more than one group.

## Bachelor of Arts (B.A.) Major in History (Single Field Teacher Certification in History, Grades 7-12)

Minimum required: 129 semester hours

### General Requirements

1. This option is designed to prepare majors for secondary teacher certification in History.

2. The major requires 33 hours, including:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey	3
HIST 4380	Historical Resources and Practices	3
Advanced history electives <sup>1</sup>		15
Total Hours		33

<sup>1</sup> Students are required to take one course from Group A (World History), one course from Group B (European History), two courses from Group C (U.S. History), and one course from either Group A or B.

3. Majors must complete an approved minor. See minors in the Degrees and Programs section of this catalog.

4. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.

5. In addition to the teaching field, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
Total Hours		21

6. To be accepted into the Teacher Preparation program, students must possess a 2.75 overall GPA and they must apply through the Office of Educator Preparation (p. 204). Students should apply to the program the semester before they plan to take any CI courses.

				Freshman
	First Semester	Hours	Second Semester	Hours
ENG 1310 <sup>1</sup>		3	ENG 1320 <sup>1</sup>	3
US 1100		1	HIST 1310	3
POSI 2310		3	POSI 2310	3

MATH 1315 (or higher, excluding MATH 1316) <sup>1</sup>	3 Modern Language 1420	4
Modern Language 1410	4 PHIL 1305 or 1320 <sup>1</sup>	3
14		16

**Sophomore**

First Semester	Hours	Second Semester	Hours
COMM 1310 <sup>2</sup>	3	Select one of the following:	3
Select one of the following:	3	ENG 2310	
ENG 2310		ENG 2320	
ENG 2320		ENG 2330	
ENG 2330		ENG 2340	
ENG 2340		ENG 2350	
ENG 2350		ENG 2360	
ENG 2360		Modern Language 2320	3
Modern Language 2310	3	HIST 2311	3
HIST 1320	3	Life and Physical Sciences	3
Social and Behavioral Sciences <sup>3</sup>	3	Minor	3
15		15	

**Junior**

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	B.A. Science	3-4
ART 2310		CI 4332	3
DAN 2313		HIST Advanced Group Electives	6
MU 2313		Minor	3
TH 2313			
Minor	3		
HIST 2312	3		
HIST 3372	3		
Life and Physical Sciences	3		
15		15	

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
HIST Advanced Group Electives	6	HIST 4380	3	EDST 4681 <sup>4</sup>	6
CI 3325	3	HIST Advanced Group Electives	3		
Minor	9	Education Block:	9		
		CI 4370			
		CI 4343			
		RDG 3320			
18		15		6	

Total Hours: 129

- <sup>1</sup> Must be completed with a grade of "C" or higher.
- <sup>2</sup> Must be completed with a grade of "B" or higher. If the grade is lower than a "B", then an interview will need to be scheduled with the Office of Educator Preparation (OEP)
- <sup>3</sup> ECO 2301 or ECO 2314 is recommended to satisfy the Social and Behavioral Sciences component of the general education core curriculum.
- <sup>4</sup> Students must also maintain a 2.5 GPA in the teaching field, and all required coursework must be completed before student teaching (EDST 4681)

### HIST Advanced Group Electives

#### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3



HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

**Group B - European History**

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3
HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 4307	Medieval European History, 300-1400	3
HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318A	Daily Life in the Roman Empire	3
HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4318O	History of Modern Spain	3

HIST 4318P	France and the Modern World	3
HIST 4318Q	History of Early Modern Spain	3
HIST 4318R	Ancient and Medieval Spain	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4320	Origins of Christianity	3
HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4336	Germany from 1815 to Present	3
HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society	3
HIST 4388	Problems in History	3

**Group C - U.S. History**

Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3340	History of the United States, 1877-1914	3
HIST 3341	History of the United States, 1914-1945	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3
HIST 3343	Social and Intellectual History of the United States Since 1865	3
HIST 3344	Economic History of the United States	3
HIST 3346	The Civil War and Reconstruction	3
HIST 3349	The Constitution of the United States	3
HIST 3352	Western America	3
HIST 3353	The Greater Southwest	3
HIST 3357	History of U.S. Foreign Relations	3
HIST 3359	African American History	3
HIST 3363	Early American History to 1763	3
HIST 3365	The Early American Republic	3
HIST 3368A	Introduction to Public History	3
HIST 3368B	Courts and Society in Early America	3
HIST 3368D	Everyday America ca. 1900	3
HIST 3368E	United States Westward Expansionism, 1776-1861	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3
HIST 3368H	LBJ's America	3
HIST 3368J	The Space Race	3
HIST 3368K	American Cultural History	3
HIST 3368L	History of Mexican American Music in the Southwest	3
HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 3368Q	History of Professional Baseball, 1869-1994	3

HIST 3368R	History of Rock and Roll	3
HIST 3368S	History of Music and Race in the American South	3
HIST 3368T	American Songbook	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 3369Y	Black Women and Black Protest in America	3
HIST 3369Z	Immigration and Ethnicity	3
HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3
HIST 3372	Texas History: A Survey	3
HIST 3373A	Women as a Force in American Society	3
HIST 3373B	U.S. Women's History	3
HIST 3373C	The History of Rural Women	3
HIST 3375A	American Labor History, 1877-1945	3
HIST 3377	History of Country Music	3
HIST 3378	History of the Blues	3
HIST 3380	The Desegregation of the South from 1944-1970	3
HIST 3381	Democracy and Education	3
HIST 4350W	The Great War	3
HIST 4360	History of the United States, 1945 to 1968	3
HIST 4361	History of the United States, 1968 to the Present	3
HIST 4363	Riddles of the Civil War	3
HIST 4364	Military History of the United States	3
HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 4367	Antebellum America	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4371	Introduction to American Indian History	3
HIST 4372	Mexican American History	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4375A	Critical Issues in Texas History	3
HIST 4375B	African-American Experience in Texas	3
HIST 4376	The History of Texas Music	3
HIST 4388	Problems in History	3
HIST 4390	History Practicum	3

**Group D - History Capstone and Teacher Certification Preparation**

Code	Title	Hours
HIST 4300	Social Studies Resources and Practices	3
HIST 4380	Historical Resources and Practices	3
HIST 4399	Senior Seminar	3

<sup>1</sup> Course allowable for credit in more than one group. Such courses may not be taken to satisfy more than one group.

# Bachelor of Arts (B.A.) Major in History (Teacher Certification in Social Studies, Grades 7-12: Geography Minor and Political Science Third Field)

**Minimum required: 130 semester hours**

## General Requirements

1. This option is designed to prepare students for secondary teacher certification in the social studies disciplines: History, Geography, Government, and Economics.
2. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.
3. The Social Studies Composite with a History major, Geography minor, and Political Science third field requires 30 hours of History, including:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey	3
HIST 4300	Social Studies Resources and Practices	3
Advanced HIST Electives <sup>1</sup>		12
<b>Total Hours</b>		<b>30</b>

<sup>1</sup> In choosing advanced History electives, students are required to complete one advanced course from Group A (World History), one advanced course from Group B (European History), one advanced course from Group C (U.S. History), and one advanced course from either Group A or B.

The minor in Geography (16 hours) requires the following:

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310 World Geography		
GEO 2410	Introduction to Physical Geography	4
GEO 3303	Economic Geography	3
GEO 3309	United States and Canada	3
GEO 3329	Geography of Texas	3
<b>Total Hours</b>		<b>16</b>

The third field in Political Science (15 hours) requires the following:

POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
Group 2 (American Government)		6
Group 3 (Public Law)		
Select three hours from the following:		3
POSI 3310	Constitutional Law: Basic Structures and Principles	
POSI 3311	Constitutional Law: Individual Liberties	
POSI 4311	The Supreme Court and the Judicial Process	
<b>Total Hours</b>		<b>15</b>

4. In addition to the major, minor, and third teaching field requirements, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
Total Hours		21

5. To be accepted into the Teacher Preparation program, students must possess a 2.75 overall GPA and they must apply through the Office of Educator Preparation (p. 204). Students should apply to the program the semester before they plan to take any CI courses.

**Freshman**

First Semester	Hours	Second Semester	Hours
ENG 1310 <sup>1</sup>	3	ENG 1320 <sup>1</sup>	3
US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2310	3
MATH 1315 (or higher, excluding MATH 1316) <sup>1</sup>	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320 <sup>1</sup>	3
14		16	

**Sophomore**

First Semester	Hours	Second Semester	Hours
COMM 1310 <sup>2</sup>	3	Select one of the following:	3
Select one of the following:	3	ENG 2310	
ENG 2310		ENG 2320	
ENG 2320		ENG 2330	
ENG 2330		ENG 2340	
ENG 2340		ENG 2350	
ENG 2350		ENG 2360	
ENG 2360		Modern Language 2320	3
Modern Language 2310	3	HIST 2311	3
HIST 1320	3	GEO 2410	4

GEO 1309 or 1310	3	POSI Group II	3
15		16	

**Junior**

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	ECO 2301 or 2314 <sup>3</sup>	3
ART 2310		CI 4332	3
DAN 2313		HIST Advanced Group Electives	3
MU 2313		GEO 3309	3
TH 2313		POSI Group II	3
GEO 3303	3		
HIST 2312	3		
HIST 3372	3		
Life and Physical Sciences	3		
15		15	

**Senior**

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
HIST Advanced Group Electives	6	HIST 4300	3	EDST 4681 <sup>4</sup>	6
CI 3325	3	HIST Advanced Group Electives	3		
Select one of the following:	3	Education Block:	9		
POSI 331		CI 4370			
POSI 3311		CI 4343			
POSI 431		RDG 3320			
GEO 3329	3				
Life and Physical Sciences	3				
18		15		6	

Total Hours: 130

<sup>1</sup> Must be completed with a grade of "C" or higher.  
<sup>2</sup> Must be completed with a grade of "B" or higher. If the grade is lower than a "B", then an interview will need to be scheduled with the Office of Educator Preparation (OEP)  
<sup>3</sup> ECO 2301 or ECO 2314 is required to satisfy the Social and Behavioral Sciences component in the general education core curriculum since Economics is a teaching subject that is covered on the Social Studies Composite TEXES exam.

<sup>4</sup> Students must also maintain a 2.5 GPA in the teaching field, and all required coursework must be completed before student teaching (EDST 4681)

HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

## HIST Advanced Group Electives

### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3
HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3

### Group B - European History

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3
HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 4307	Medieval European History, 300-1400	3
HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318A	Daily Life in the Roman Empire	3
HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4318O	History of Modern Spain	3
HIST 4318P	France and the Modern World	3
HIST 4318Q	History of Early Modern Spain	3
HIST 4318R	Ancient and Medieval Spain	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4320	Origins of Christianity	3
HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4336	Germany from 1815 to Present	3
HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society	3
HIST 4388	Problems in History	3

### Group C - U.S. History

Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3340	History of the United States, 1877-1914	3
HIST 3341	History of the United States, 1914-1945	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3

HIST 3343	Social and Intellectual History of the United States Since 1865	3	HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 3344	Economic History of the United States	3	HIST 4367	Antebellum America	3
HIST 3346	The Civil War and Reconstruction	3	HIST 4368	War and Society <sup>1</sup>	3
HIST 3349	The Constitution of the United States	3	HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 3352	Western America	3	HIST 4371	Introduction to American Indian History	3
HIST 3353	The Greater Southwest	3	HIST 4372	Mexican American History	3
HIST 3357	History of U.S. Foreign Relations	3	HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 3359	African American History	3	HIST 4375A	Critical Issues in Texas History	3
HIST 3363	Early American History to 1763	3	HIST 4375B	African-American Experience in Texas	3
HIST 3365	The Early American Republic	3	HIST 4376	The History of Texas Music	3
HIST 3368A	Introduction to Public History	3	HIST 4388	Problems in History	3
HIST 3368B	Courts and Society in Early America	3	HIST 4390	History Practicum	3
HIST 3368D	Everyday America ca. 1900	3	<b>Group D - History Capstone and Teacher Certification Preparation</b>		
HIST 3368E	United States Westward Expansionism, 1776-1861	3	<b>Code</b>	<b>Title</b>	<b>Hours</b>
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3	HIST 4300	Social Studies Resources and Practices	3
HIST 3368H	LBJ's America	3	HIST 4380	Historical Resources and Practices	3
HIST 3368J	The Space Race	3	HIST 4399	Senior Seminar	3
HIST 3368K	American Cultural History	3	<sup>1</sup> Course allowable for credit in more than one group. Such courses may not be taken to satisfy more than one group.		
HIST 3368L	History of Mexican American Music in the Southwest	3	<b>Bachelor of Arts (B.A.) Major in History (Teacher Certification in Social Studies, Grades 7-12: Political Science Minor and Geography Third Field)</b>		
HIST 3368M	Popular Music and Social Movements in 20th Century America	3	<b>Minimum required: 130 semester hours</b>		
HIST 3368N	History of U.S. Foreign Policy in Indochina	3	<b>General Requirements</b>		
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3	1. This option is designed to prepare students for secondary teacher certification in the social studies disciplines: History, Geography, Government, and Economics.		
HIST 3368P	The U.S. and Britain in the Sixties	3	2. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.		
HIST 3368Q	History of Professional Baseball, 1869-1994	3	3. The Social Studies Composite with a History major, Political Science minor, and Geography third field requires 30 hours of History, including:		
HIST 3368R	History of Rock and Roll	3	HIST 1310	History of the United States to 1877	3
HIST 3368S	History of Music and Race in the American South	3	HIST 1320	History of the United States, 1877 to Date	3
HIST 3368T	American Songbook	3	HIST 2311	History of World Civilization to the 17th Century	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3	HIST 2312	History of World Civilization from the 17th Century	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3	HIST 3372	Texas History: A Survey	3
HIST 3369Y	Black Women and Black Protest in America	3	HIST 4300	Social Studies Resources and Practices	3
HIST 3369Z	Immigration and Ethnicity	3	Advanced HIST Electives <sup>1</sup>		12
HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3	Total Hours		30
HIST 3372	Texas History: A Survey	3			
HIST 3373A	Women as a Force in American Society	3			
HIST 3373B	U.S. Women's History	3			
HIST 3373C	The History of Rural Women	3			
HIST 3375A	American Labor History, 1877-1945	3			
HIST 3377	History of Country Music	3			
HIST 3378	History of the Blues	3			
HIST 3380	The Desegregation of the South from 1944-1970	3			
HIST 3381	Democracy and Education	3			
HIST 4350W	The Great War	3			
HIST 4360	History of the United States, 1945 to 1968	3			
HIST 4361	History of the United States, 1968 to the Present	3			
HIST 4363	Riddles of the Civil War	3			
HIST 4364	Military History of the United States	3			



<sup>1</sup> In choosing advanced History electives, students are required to complete one advanced course from Group A (World History), one advanced course from Group B (European History), one advanced course from Group C (U.S. History), and one advanced course from either Group A or B.

The minor in Political Science (21 hours) requires the following:

POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
POSI 3300	Basic Political Ideas	3
or POSI 3301	Basic Political Institutions	
Group II (American Government)		6
Group III (Public Law)		
Select three hours from the following:		3
POSI 3310	Constitutional Law: Basic Structures and Principles	
POSI 3311	Constitutional Law: Individual Liberties	
POSI 4311	The Supreme Court and the Judicial Process	
POSI 4398	Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics	3
Total Hours		21

The third field in Geography (10 hours) requires the following:

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 3303	Economic Geography	3
or GEO 3309	United States and Canada	
Total Hours		10

4. In addition to the major, minor, and third teaching field requirements, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
Total Hours		21

5. To be accepted into the Teacher Preparation program, students must possess a 2.75 overall GPA and they must apply through the Office of Educator Preparation (p. 204). Students should apply to the program the semester before they plan to take any CI courses.

**Freshman**

First Semester	Hours	Second Semester	Hours
ENG 1310 <sup>1</sup>	3	ENG 1320 <sup>1</sup>	3
US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2310	3

First Semester	Hours	Second Semester	Hours
MATH 1315 (or higher, excluding MATH 1316) <sup>1</sup>	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320 <sup>1</sup>	3
	14		16
			<b>Sophomore</b>
COMM 1310 <sup>2</sup>	3	Select one of the following:	3
POSI 3300 or 3301	3	ENG 2310	
Modern Language 2310	3	ENG 2320	
HIST 1320	3	ENG 2330	
GEO 1309 or 1310	3	ENG 2340	
		ENG 2350	
		ENG 2360	
		Modern Language 2320	3
		HIST 2311	3
		GEO 2410	4
		POSI Advanced Group II	3
	15		16
			<b>Junior</b>
Select one of the following:	3	ECO 2301 or 2314 <sup>3</sup>	3
ART 2310		CI 4332	3
DAN 2313		HIST Advanced Group Electives	3
MU 2313		Select one of the following:	3
TH 2313		POSI 3310	
HIST 2312	3	POSI 331	
HIST 3372	3	POSI 4311	
POSI Advanced Group II	3	Select one of the following (ENG Literature):	3

Life and Physical Sciences	3	ENG 2310			
		ENG 2320			
		ENG 2330			
		ENG 2340			
		ENG 2359			
		ENG 2360			
	15		15		
				<b>Senior</b>	
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Third Semester</b>	<b>Hours</b>
HIST Advanced Group Electives	6	HIST 4300	3	EDST 4681 <sup>4</sup>	6
GEO 3303 or 3309	3	HIST Advanced Group Electives	3		
CI 3325	3	Education Block:	9		
POSI 4398	3	CI 4370			
Life and Physical Sciences	3	CI 4343			
		RDG 3320			
	18		15		6

Total Hours: 130

<sup>1</sup> Must be completed with a grade of "C" or higher.<sup>2</sup> Must be completed with a grade of "C" or higher. If the grade is lower than a "C", then an interview will need to be scheduled with the Office of Educator Preparation (OEP)<sup>3</sup> Since Economics is a teaching subject that is covered on the Social Studies Composite TExES exam, students must take ECO 2301 or ECO 2314 to satisfy the Social and Behavioral Sciences component in the general education core curriculum.<sup>4</sup> Students must also maintain a 2.5 GPA in the teaching field, and all required coursework must be completed before student teaching (EDST 4681)

HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3
HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

## HIST Advanced Group Electives

### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3

### Group B - European History

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3

HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3	HIST 3368H	LBJ's America	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3	HIST 3368J	The Space Race	3
HIST 4307	Medieval European History, 300-1400	3	HIST 3368K	American Cultural History	3
HIST 4317	Tudor-Stuart England, 1485-1689	3	HIST 3368L	History of Mexican American Music in the Southwest	3
HIST 4318A	Daily Life in the Roman Empire	3	HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 4318G	Western Europe and the Development of Modern Africa	3	HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3	HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 4318O	History of Modern Spain	3	HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 4318P	France and the Modern World	3	HIST 3368Q	History of Professional Baseball, 1869-1994	3
HIST 4318Q	History of Early Modern Spain	3	HIST 3368R	History of Rock and Roll	3
HIST 4318R	Ancient and Medieval Spain	3	HIST 3368S	History of Music and Race in the American South	3
HIST 4318S	Britain and the World <sup>1</sup>	3	HIST 3368T	American Songbook	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3	HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3	HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 4320	Origins of Christianity	3	HIST 3369Y	Black Women and Black Protest in America	3
HIST 4333	The History of Russia and Eurasia to 1917	3	HIST 3369Z	Immigration and Ethnicity	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3	HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3
HIST 4336	Germany from 1815 to Present	3	HIST 3372	Texas History: A Survey	3
HIST 4337	Germany and National Socialism, 1918-1945	3	HIST 3373A	Women as a Force in American Society	3
HIST 4350P	European Colonial <sup>1</sup>	3	HIST 3373B	U.S. Women's History	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3	HIST 3373C	The History of Rural Women	3
HIST 4350W	The Great War <sup>1</sup>	3	HIST 3375A	American Labor History, 1877-1945	3
HIST 4368	War and Society	3	HIST 3377	History of Country Music	3
HIST 4388	Problems in History	3	HIST 3378	History of the Blues	3
			HIST 3380	The Desegregation of the South from 1944-1970	3
			HIST 3381	Democracy and Education	3
			HIST 4350W	The Great War	3
			HIST 4360	History of the United States, 1945 to 1968	3
			HIST 4361	History of the United States, 1968 to the Present	3
			HIST 4363	Riddles of the Civil War	3
			HIST 4364	Military History of the United States	3
			HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
			HIST 4367	Antebellum America	3
			HIST 4368	War and Society <sup>1</sup>	3
			HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
			HIST 4371	Introduction to American Indian History	3
			HIST 4372	Mexican American History	3
			HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
			HIST 4375A	Critical Issues in Texas History	3
			HIST 4375B	African-American Experience in Texas	3
			HIST 4376	The History of Texas Music	3
			HIST 4388	Problems in History	3
			HIST 4390	History Practicum	3

**Group C - U.S. History**

Code	Title	Hours	Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3	<b>Group D - History Capstone and Teacher Certification Preparation</b>		
HIST 3340	History of the United States, 1877-1914	3	<b>Code</b>	<b>Title</b>	<b>Hours</b>
HIST 3341	History of the United States, 1914-1945	3	HIST 4300	Social Studies Resources and Practices	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3	HIST 4380	Historical Resources and Practices	3
HIST 3343	Social and Intellectual History of the United States Since 1865	3			
HIST 3344	Economic History of the United States	3			
HIST 3346	The Civil War and Reconstruction	3			
HIST 3349	The Constitution of the United States	3			
HIST 3352	Western America	3			
HIST 3353	The Greater Southwest	3			
HIST 3357	History of U.S. Foreign Relations	3			
HIST 3359	African American History	3			
HIST 3363	Early American History to 1763	3			
HIST 3365	The Early American Republic	3			
HIST 3368A	Introduction to Public History	3			
HIST 3368B	Courts and Society in Early America	3			
HIST 3368D	Everyday America ca. 1900	3			
HIST 3368E	United States Westward Expansionism, 1776-1861	3			
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3			

HIST 4399 Senior Seminar 3

<sup>1</sup> Course allowable for credit in more than one group. Such courses may not be taken to satisfy more than one group.

# Bachelor of Arts (B.A.) Major in History (Two Fields Teacher Certification in History)

**Minimum required: 129 semester hours**

## General Requirements

1. This option is designed to prepare majors for secondary teacher certification in both History and a second teaching field.

2. The major requires 33 hours, including:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey	3
HIST 4380	Historical Resources and Practices	3
Advanced history electives <sup>1</sup>		15
<b>Total Hours</b>		<b>33</b>

<sup>1</sup> Students are required to take one course from Group A (World History), one course from Group B (European History), two courses from Group C (U.S. History), and one course from either Group A or B.

3. Majors must complete all requirements associated with an approved second teaching field.

4. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.

5. In addition to the first and second teaching field, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
<b>Total Hours</b>		<b>21</b>

6. To be accepted into the Teacher Preparation program, students must possess a 2.75 overall GPA and they must apply through the Office of Educator Preparation (p. 204). Students should apply to the program the semester before they plan to take any CI courses.

### Freshman

First Semester	Hours	Second Semester	Hours
ENG 1310 <sup>1</sup>	3	ENG 1320 <sup>1</sup>	3

US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2310	3
MATH 1315 (or higher, excluding MATH 1316) <sup>1</sup>	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320 <sup>1</sup>	3
14		16	

### Sophomore

First Semester	Hours	Second Semester	Hours
COMM 1310 <sup>2</sup>	3	Select one of the following:	3
Select one of the following:	3	ENG 2310	3
ENG 2310	3	ENG 2320	3
ENG 2320	3	ENG 2330	3
ENG 2330	3	ENG 2340	3
ENG 2340	3	ENG 2350	3
ENG 2350	3	ENG 2360	3
ENG 2360	3	Modern Language 2320	3
Modern Language 2310	3	HIST 2311	3
HIST 1320	3	Life and Physical Sciences	3
Social and Behavioral Sciences <sup>3</sup>	3	Second Teaching Field	3
15		15	

### Junior

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	B.A. Science	3-4
ART 2310	3	CI 4332	3
DAN 2313	3	HIST Advanced Group Electives	6
MU 2313	3	Second Teaching Field	3
TH 2313	3	Second Teaching Field	3
HIST 2312	3		

HIST 3372	3				
Life and Physical Sciences	3				
	15		15		
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Third Semester</b>	<b>Senior Hours</b>
HIST Advanced Group Electives	6	HIST 4380	3	EDST 4681 <sup>4</sup>	6
Second Teaching Field	9	HIST Advanced Group Electives	3		
CI 3325	3	Education Block:	9		
		CI 4370			
		CI 4343			
		RDG 332:			
	18		15		6

Total Hours: 129

<sup>1</sup> Must be completed with a grade of "C" or higher.<sup>2</sup> Must be completed with a grade of "B" or higher. If the grade is lower than a "B", then an interview will need to be scheduled with the Office of Educator Preparation (OEP)<sup>3</sup> ECO 2301 or ECO 2314 is recommended to satisfy the Social and Behavioral Sciences component of the general education core curriculum.<sup>4</sup> Students must also maintain a 2.5 GPA in the teaching field, and all required coursework must be completed before student teaching (EDST 4681)

## HIST Advanced Group Electives

### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3

HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3
HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

### Group B - European History

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3
HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 4307	Medieval European History, 300-1400	3
HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318A	Daily Life in the Roman Empire	3



HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4318O	History of Modern Spain	3
HIST 4318P	France and the Modern World	3
HIST 4318Q	History of Early Modern Spain	3
HIST 4318R	Ancient and Medieval Spain	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4320	Origins of Christianity	3
HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4336	Germany from 1815 to Present	3
HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society	3
HIST 4388	Problems in History	3

### Group C - U.S. History

Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3340	History of the United States, 1877-1914	3
HIST 3341	History of the United States, 1914-1945	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3
HIST 3343	Social and Intellectual History of the United States Since 1865	3
HIST 3344	Economic History of the United States	3
HIST 3346	The Civil War and Reconstruction	3
HIST 3349	The Constitution of the United States	3
HIST 3352	Western America	3
HIST 3353	The Greater Southwest	3
HIST 3357	History of U.S. Foreign Relations	3
HIST 3359	African American History	3
HIST 3363	Early American History to 1763	3
HIST 3365	The Early American Republic	3
HIST 3368A	Introduction to Public History	3
HIST 3368B	Courts and Society in Early America	3
HIST 3368D	Everyday America ca. 1900	3
HIST 3368E	United States Westward Expansionism, 1776-1861	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3
HIST 3368H	LBJ's America	3
HIST 3368J	The Space Race	3
HIST 3368K	American Cultural History	3
HIST 3368L	History of Mexican American Music in the Southwest	3
HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 3368Q	History of Professional Baseball, 1869-1994	3
HIST 3368R	History of Rock and Roll	3
HIST 3368S	History of Music and Race in the American South	3
HIST 3368T	American Songbook	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 3369Y	Black Women and Black Protest in America	3
HIST 3369Z	Immigration and Ethnicity	3
HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3
HIST 3372	Texas History: A Survey	3
HIST 3373A	Women as a Force in American Society	3
HIST 3373B	U.S. Women's History	3
HIST 3373C	The History of Rural Women	3
HIST 3375A	American Labor History, 1877-1945	3
HIST 3377	History of Country Music	3
HIST 3378	History of the Blues	3
HIST 3380	The Desegregation of the South from 1944-1970	3
HIST 3381	Democracy and Education	3
HIST 4350W	The Great War	3
HIST 4360	History of the United States, 1945 to 1968	3
HIST 4361	History of the United States, 1968 to the Present	3
HIST 4363	Riddles of the Civil War	3
HIST 4364	Military History of the United States	3
HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 4367	Antebellum America	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4371	Introduction to American Indian History	3
HIST 4372	Mexican American History	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4375A	Critical Issues in Texas History	3
HIST 4375B	African-American Experience in Texas	3
HIST 4376	The History of Texas Music	3
HIST 4388	Problems in History	3
HIST 4390	History Practicum	3

### Group D - History Capstone and Teacher Certification Preparation

Code	Title	Hours
HIST 4300	Social Studies Resources and Practices	3
HIST 4380	Historical Resources and Practices	3
HIST 4399	Senior Seminar	3

<sup>1</sup> Course allowable for credit in more than one group. Such courses may not be taken to satisfy more than one group.

## Minor in History

HIST 1310	History of the United States to 1877	3
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HIST 1320	History of the United States, 1877 to Date	3
HIST 2310	Western Civilization to 1715	3
or HIST 2311	History of World Civilization to the 17th Century	
HIST 2320	Western Civilization, 1715 to Date	3
or HIST 2312	History of World Civilization from the 17th Century	
Advanced History Electives <sup>1</sup>		12
Total Hours		24

<sup>1</sup> In choosing advanced electives, students are required to complete one course from Group A (World History), one course from Group B (European History), one course from Group C (U.S. History), and one additional course from any Group.

## Advanced History Electives

### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4325	Islamic History to 1798	3
HIST 4326	The Modern Middle East	3
HIST 4327	The Problem of Palestine	3
HIST 4328	History of India	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3
HIST 4343	Modern China, 1600 to the Present	3
HIST 4344	Modern Japan, 1600-Present	3
HIST 4346	Modern Korea	3
HIST 4347	History of Hong Kong	3
HIST 4348	Mahatma Gandhi in World History	3
HIST 4350A	Slavery and Emancipation in the Americas	3
HIST 4350B	Origins of the Modern Global Economic System	3
HIST 4350D	Empire and Identity in Central Asia	3
HIST 4350E	Gender in Latin American History	3
HIST 4350F	Postwar Japan	3
HIST 4350J	History and Culture of Modern India	3
HIST 4350K	Gender & Militarization in the Arab World	3
HIST 4350L	History of Southeast Asia	3

HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3
HIST 4350O	History of Indochina	3
HIST 4350P	European Colonial	3
HIST 4350Q	Pirates of the Mediterranean	3
HIST 4350R	Workers and Work in the Arab World	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350V	History of Pakistan <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4388	Problems in History	3

### Group B - European History

Code	Title	Hours
HIST 3310	History of Europe, 1815-1919	3
HIST 3311	History of Europe Since 1919	3
HIST 3312	Renaissance and Reformation	3
HIST 3313	Europe During the Old Regime, 1600-1760	3
HIST 3314	Revolutionary Europe, 1760-1815	3
HIST 3315	History of England to 1603	3
HIST 3316	History of England Since 1603	3
HIST 3358	The Military History of the Western World	3
HIST 3361	The Napoleonic Wars	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3
HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 4307	Medieval European History, 300-1400	3
HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318A	Daily Life in the Roman Empire	3
HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4318O	History of Modern Spain	3
HIST 4318P	France and the Modern World	3
HIST 4318Q	History of Early Modern Spain	3
HIST 4318R	Ancient and Medieval Spain	3
HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4320	Origins of Christianity	3
HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4336	Germany from 1815 to Present	3
HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350W	The Great War <sup>1</sup>	3
HIST 4368	War and Society	3

HIST 4388	Problems in History	3
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### Group C - U.S. History

Code	Title	Hours
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3340	History of the United States, 1877-1914	3
HIST 3341	History of the United States, 1914-1945	3
HIST 3342	Social and Intellectual History of the United States, 1607-1865	3
HIST 3343	Social and Intellectual History of the United States Since 1865	3
HIST 3344	Economic History of the United States	3
HIST 3346	The Civil War and Reconstruction	3
HIST 3349	The Constitution of the United States	3
HIST 3352	Western America	3
HIST 3353	The Greater Southwest	3
HIST 3357	History of U.S. Foreign Relations	3
HIST 3359	African American History	3
HIST 3363	Early American History to 1763	3
HIST 3365	The Early American Republic	3
HIST 3368A	Introduction to Public History	3
HIST 3368B	Courts and Society in Early America	3
HIST 3368D	Everyday America ca. 1900	3
HIST 3368E	United States Westward Expansionism, 1776-1861	3
HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3
HIST 3368H	LBJ's America	3
HIST 3368J	The Space Race	3
HIST 3368K	American Cultural History	3
HIST 3368L	History of Mexican American Music in the Southwest	3
HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 3368Q	History of Professional Baseball, 1869-1994	3
HIST 3368R	History of Rock and Roll	3
HIST 3368S	History of Music and Race in the American South	3
HIST 3368T	American Songbook	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 3369Y	Black Women and Black Protest in America	3
HIST 3369Z	Immigration and Ethnicity	3
HIST 3371A	Conflict and Creativity in U.S. Urban and Suburban History <sup>1</sup>	3
HIST 3372	Texas History: A Survey	3
HIST 3373A	Women as a Force in American Society	3
HIST 3373B	U.S. Women's History	3
HIST 3373C	The History of Rural Women	3
HIST 3375A	American Labor History, 1877-1945	3
HIST 3377	History of Country Music	3
HIST 3378	History of the Blues	3

HIST 3380	The Desegregation of the South from 1944-1970	3
HIST 3381	Democracy and Education	3
HIST 4350W	The Great War	3
HIST 4360	History of the United States, 1945 to 1968	3
HIST 4361	History of the United States, 1968 to the Present	3
HIST 4363	Riddles of the Civil War	3
HIST 4364	Military History of the United States	3
HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 4367	Antebellum America	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4371	Introduction to American Indian History	3
HIST 4372	Mexican American History	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4375A	Critical Issues in Texas History	3
HIST 4375B	African-American Experience in Texas	3
HIST 4376	The History of Texas Music	3
HIST 4388	Problems in History	3
HIST 4390	History Practicum	3

## Second Teaching Field in History (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in History, the requirements are:

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey	3
HIST 4380	Historical Resources and Practices	3
Select one from Group A (World History)		3
Select one from Group B (European History)		3
Select one from Group C (U.S. History)		3
Total Hours		27

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

### Group A - World History

Code	Title	Hours
HIST 3319	Colonial History of Brazil	3
HIST 3320	History of Mexico	3
HIST 3322	Colonial History of Latin America to 1828	3
HIST 3324	Latin America from Independence to Present	3
HIST 3325F	Militarism in Latin America	3
HIST 3325G	Modern Revolutions in Latin American History	3
HIST 3325H	Development and Underdevelopment in Latin America	3
HIST 3326	The Southern Cone of Latin America	3
HIST 3327	History of Mexico to 1848	3
HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3

HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World <sup>1</sup>	3	HIST 4303	Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C.	3
HIST 3368N	History of U.S. Foreign Policy in Indochina <sup>1</sup>	3	HIST 4304	Ancient Rome and the Mediterranean 500 B.C. to 500 A.D.	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3	HIST 4307	Medieval European History, 300-1400	3
HIST 4318G	Western Europe and the Development of Modern Africa <sup>1</sup>	3	HIST 4317	Tudor-Stuart England, 1485-1689	3
HIST 4318J	The Arab-Israeli Wars, 1948-1996	3	HIST 4318A	Daily Life in the Roman Empire	3
HIST 4318S	Britain and the World <sup>1</sup>	3	HIST 4318G	Western Europe and the Development of Modern Africa	3
HIST 4325	Islamic History to 1798	3	HIST 4318H	Everyday Life in Europe from the Reformation through World War II	3
HIST 4326	The Modern Middle East	3	HIST 4318O	History of Modern Spain	3
HIST 4327	The Problem of Palestine	3	HIST 4318P	France and the Modern World	3
HIST 4328	History of India	3	HIST 4318Q	History of Early Modern Spain	3
HIST 4333	The History of Russia and Eurasia to 1917 <sup>1</sup>	3	HIST 4318R	Ancient and Medieval Spain	3
HIST 4343	Modern China, 1600 to the Present	3	HIST 4318S	Britain and the World <sup>1</sup>	3
HIST 4344	Modern Japan, 1600-Present	3	HIST 4318T	Roman and Medieval Britain <sup>1</sup>	3
HIST 4346	Modern Korea	3	HIST 4318U	Industrial Britain <sup>1</sup>	3
HIST 4347	History of Hong Kong	3	HIST 4320	Origins of Christianity	3
HIST 4348	Mahatma Gandhi in World History	3	HIST 4333	The History of Russia and Eurasia to 1917	3
HIST 4350A	Slavery and Emancipation in the Americas	3	HIST 4334	The History of Russia and Eurasia from 1917 to Present	3
HIST 4350B	Origins of the Modern Global Economic System	3	HIST 4336	Germany from 1815 to Present	3
HIST 4350D	Empire and Identity in Central Asia	3	HIST 4337	Germany and National Socialism, 1918-1945	3
HIST 4350E	Gender in Latin American History	3	HIST 4350P	European Colonial <sup>1</sup>	3
HIST 4350F	Postwar Japan	3	HIST 4350S	Piracy Through the Ages <sup>1</sup>	3
HIST 4350J	History and Culture of Modern India	3	HIST 4350W	The Great War <sup>1</sup>	3
HIST 4350K	Gender & Militarization in the Arab World	3	HIST 4368	War and Society	3
HIST 4350L	History of Southeast Asia	3	HIST 4388	Problems in History	3
HIST 4350N	The 20th Century Middle East: Syria, Iraq, and Palestine	3			
HIST 4350O	History of Indochina	3			
HIST 4350P	European Colonial	3			
HIST 4350Q	Pirates of the Mediterranean	3			
HIST 4350R	Workers and Work in the Arab World	3			
HIST 4350S	Piracy Through the Ages <sup>1</sup>	3			
HIST 4350V	History of Pakistan <sup>1</sup>	3			
HIST 4350W	The Great War <sup>1</sup>	3			
HIST 4368	War and Society <sup>1</sup>	3			
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3			
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3			
HIST 4388	Problems in History	3			
<b>Group B - European History</b>			<b>Group C - U.S. History</b>		
<b>Code</b>	<b>Title</b>	<b>Hours</b>	<b>Code</b>	<b>Title</b>	<b>Hours</b>
HIST 3310	History of Europe, 1815-1919	3	HIST 3329	Spanish Borderlands, 1521-1821 <sup>1</sup>	3
HIST 3311	History of Europe Since 1919	3	HIST 3340	History of the United States, 1877-1914	3
HIST 3312	Renaissance and Reformation	3	HIST 3341	History of the United States, 1914-1945	3
HIST 3313	Europe During the Old Regime, 1600-1760	3	HIST 3342	Social and Intellectual History of the United States, 1607-1865	3
HIST 3314	Revolutionary Europe, 1760-1815	3	HIST 3343	Social and Intellectual History of the United States Since 1865	3
HIST 3315	History of England to 1603	3	HIST 3344	Economic History of the United States	3
HIST 3316	History of England Since 1603	3	HIST 3346	The Civil War and Reconstruction	3
HIST 3358	The Military History of the Western World	3	HIST 3349	The Constitution of the United States	3
HIST 3361	The Napoleonic Wars	3	HIST 3352	Western America	3
HIST 3368B	Courts and Society in Early America <sup>1</sup>	3	HIST 3353	The Greater Southwest	3
			HIST 3357	History of U.S. Foreign Relations	3
			HIST 3359	African American History	3
			HIST 3363	Early American History to 1763	3
			HIST 3365	The Early American Republic	3
			HIST 3368A	Introduction to Public History	3
			HIST 3368B	Courts and Society in Early America	3
			HIST 3368D	Everyday America ca. 1900	3
			HIST 3368E	United States Westward Expansionism, 1776-1861	3
			HIST 3368F	History of U.S. Foreign Policy-Making in the Muslim World	3

HIST 3368H	LBJ's America	3
HIST 3368J	The Space Race	3
HIST 3368K	American Cultural History	3
HIST 3368L	History of Mexican American Music in the Southwest	3
HIST 3368M	Popular Music and Social Movements in 20th Century America	3
HIST 3368N	History of U.S. Foreign Policy in Indochina	3
HIST 3368O	U.S. Foreign Relations from Revolution to Reconstruction	3
HIST 3368P	The U.S. and Britain in the Sixties	3
HIST 3368Q	History of Professional Baseball, 1869-1994	3
HIST 3368R	History of Rock and Roll	3
HIST 3368S	History of Music and Race in the American South	3
HIST 3368T	American Songbook	3
HIST 3368U	U.S. - Cuban Relations <sup>1</sup>	3
HIST 3368X	Organization of the Modern American State <sup>1</sup>	3
HIST 3369Y	Black Women and Black Protest in America	3
HIST 3369Z	Immigration and Ethnicity	3
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HIST 3372	Texas History: A Survey	3
HIST 3373A	Women as a Force in American Society	3
HIST 3373B	U.S. Women's History	3
HIST 3373C	The History of Rural Women	3
HIST 3375A	American Labor History, 1877-1945	3
HIST 3377	History of Country Music	3
HIST 3378	History of the Blues	3
HIST 3380	The Desegregation of the South from 1944-1970	3
HIST 3381	Democracy and Education	3
HIST 4350W	The Great War	3
HIST 4360	History of the United States, 1945 to 1968	3
HIST 4361	History of the United States, 1968 to the Present	3
HIST 4363	Riddles of the Civil War	3
HIST 4364	Military History of the United States	3
HIST 4365	Early American History: The Revolutionary Period, 1763-1789	3
HIST 4367	Antebellum America	3
HIST 4368	War and Society <sup>1</sup>	3
HIST 4369	Introduction to Ethnohistory <sup>1</sup>	3
HIST 4371	Introduction to American Indian History	3
HIST 4372	Mexican American History	3
HIST 4373	Economic and Social History of the Americas <sup>1</sup>	3
HIST 4375A	Critical Issues in Texas History	3
HIST 4375B	African-American Experience in Texas	3
HIST 4376	The History of Texas Music	3
HIST 4388	Problems in History	3
HIST 4390	History Practicum	3

## Department of Modern Languages

Centennial Hall Room 214

T: 512.245.2360 F: 512.245.8298

www.modlang.txstate.edu (<http://www.modlang.txstate.edu>)

The Department of Modern Languages offers courses in American Sign Language, Arabic, Chinese, French, German, Italian, Japanese, and Spanish. Instruction focuses on the acquisition of proficiency in the foreign language and on the development of knowledge of the culture, traditions, and literature of the speakers of the language. The department also offers a number of study abroad opportunities. Majors in French, German, or Spanish complete 24 hours of upper division course work and may simultaneously earn teacher certification.

People proficient in a second language have always been in demand in both the public and private sectors. They facilitate communication among people and nations and make possible the free interchange of information, ideas, and transactions. Career opportunities abound in such diverse fields as international business, international law, foreign affairs, translation, interpretation, politics, publishing, and teaching.

### B.A. Modern Language Requirement

Students seeking a BA degree are required to successfully complete an intermediate proficiency level in a modern language of their choice. Almost all students will need to complete the first year of the language (1410 and 1420) before beginning the intermediate level. Students can choose 6 hours from:

ASL 2310 & ASL 2320	Intermediate American Sign Language I and Intermediate American Sign Language II	6
ARAB 2310 & ARAB 2320	Intermediate Arabic I and Intermediate Arabic II	6
CHI 2310 & CHI 2320	Intermediate Chinese I and Intermediate Chinese II	6
FR 2310 & FR 2320	Intermediate French I and Intermediate French II	6
GER 2310 & GER 2320	Intermediate German I and Intermediate German II	6
ITAL 2310 & ITAL 2320	Intermediate Italian I and Intermediate Italian II	6
JAPA 2310 & JAPA 2320	Intermediate Japanese I and Intermediate Japanese II	6
LAT 2310 & LAT 2320	Intermediate Latin and Intermediate Latin	6
SPAN 2310 & SPAN 2320	Intermediate Spanish I and Intermediate Spanish II <sup>1</sup>	6

<sup>1</sup> Students who choose Spanish as their foreign language, must earn a grade of "C" or higher in each course (SPAN 1410, SPAN 1420, SPAN 2310, and SPAN 2320) to advance to the next level course.

### Bachelor of Arts (B.A.)

- Major in French (p. 432)
- Major in French (Teacher Certification in French, Grades EC-12) (p. 432)
- Major in German (p. 433)
- Major in German (Teacher Certification in German, Grades EC-12) (p. 434)
- Major in Spanish (p. 434)
- Major in Spanish (Teacher Certification in Spanish, Grades EC-12) (p. 435)



## Minors

- French
- German (p. 436)
- Japanese (p. 436)
- Spanish (p. 436)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include:** ASL (p. 424), ARAB (p. 424), CHI (p. 424), FR (p. 425), GER (p. 426), ITAL (p. 428), JAPA (p. 428), LAT (p. 429), LING (p. 429), POR (p. 429), SPAN (p. 429).

## Courses in American Sign Language (ASL)

Note: American Sign Language courses are taught by extension. For additional information please contact the Office of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>

### ASL 1410. Beginning American Sign Language I.

Introduction to understanding and using American Sign Language within the cultural framework of the deaf community. Students who take ASL 1410 toward degree requirements must also complete ASL 1420  
**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter  
**TCCN:** SGNL 1401

### ASL 1420. Beginning American Sign Language II.

Continued practice in understanding and using American Sign Language within the cultural framework of the deaf community. Students who take ASL 1410 toward degree requirements must also complete ASL 1420  
**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter  
**TCCN:** SGNL 1402

### ASL 2310. Intermediate American Sign Language I.

Continued development and review of American Sign Language within the cultural framework of the deaf community  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter  
**TCCN:** SGNL 2301

### ASL 2320. Intermediate American Sign Language II.

More advanced practice in American Sign Language within the cultural framework of the deaf community  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter  
**TCCN:** SGNL 2302

## Courses in Arabic (ARAB)

Note: Arabic courses are taught by extension. For additional information please contact the Office of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>

### ARAB 1410. Beginning Arabic I.

Introduction to listening, speaking, reading, and writing skills within an Arabic cultural framework. Students who take ARAB 1410 toward degree requirements must also complete ARAB 1420. (MULT)  
**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter  
**TCCN:** ARAB 1411

### ARAB 1420. Beginning Arabic II.

Continued practice in listening, speaking, reading, and writing skills within an Arabic cultural framework. Students who take ARAB 1410 toward degree requirements must also complete ARAB 1420. (MULT)  
**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter  
**TCCN:** ARAB 1412

### ARAB 2310. Intermediate Arabic I.

Continued development and review of all language skills within an Arabic cultural framework. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter  
**TCCN:** ARAB 2311

### ARAB 2320. Intermediate Arabic II.

More advanced practice in all language skills with greater emphasis on reading within an Arabic cultural framework. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter  
**TCCN:** ARAB 2312

### ARAB 3301. Levantine Arabic.

An introduction to Arab dialects with a focus on Levantine Arabic ( Jordan, Syria, Lebanon, and Palestinian territories). The course will emphasize oral communication and using the dialect correctly in its cultural context. It will also compare Levantine Arabic to Modern Standard Arabic. Repeatable once with different content  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

### ARAB 3302. Media Arabic.

Introduction to Arab media designed to advance students' proficiency in Arabic. It will present cultural characteristics of Arab media and describe how those characteristics differ from those of US media. The course will increase students' vocabulary knowledge and enable them to understand various Arab media sources. Repeatable once with different content  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Courses in Chinese (CHI)

Note: Chinese courses are taught by extension. For additional information please contact the Office of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>

**CHI 1410. Beginning Chinese I.**

Introduction to listening, speaking, reading, and writing skills within a Chinese cultural framework. Students who take CHI 1410 toward degree requirements must also complete CHI 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 1411

**CHI 1420. Beginning Chinese II.**

Continued practice in listening, speaking, reading, and writing skills within a Chinese cultural framework. Students who take CHI 1410 toward degree requirements must also complete CHI 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 1412

**CHI 2310. Intermediate Chinese I.**

Continued development and review of all language skills within a Chinese cultural framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 2311

**CHI 2320. Intermediate Chinese II.**

More advanced practice in all language skills with greater emphasis on reading within a Chinese cultural framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 2312

**CHI 3301. Conversational Chinese.**

This course is designed to improve oral communication skills in Chinese using current video and text media. The course will include the development of vocabulary and grammar necessary for communication and will focus on selected cultural themes. Students' group video projects will be posted on a course blog

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in French (FR)

**FR 1410. Beginning French I.**

Introduction to listening, speaking, reading, and writing skills within a French cultural framework. Students who take FR 1410 toward degree requirements must also complete FR 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 1411

**FR 1420. Beginning French II.**

Continued practice in listening, speaking, reading, and writing skills within a French cultural framework. Students who take FR 1410 toward degree requirements must also complete FR 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 1412

**FR 2310. Intermediate French I.**

Continued development and review of all language skills within a French cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 2311

**FR 2320. Intermediate French II.**

More advanced practice in all language skills with greater emphasis on reading within a French cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 2312

**FR 3305. Acting French.**

An introduction to upper division courses in French designed to strengthen reading skills and oral command of the language through the study and performance of short French plays from the classical to the contemporary period. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3306. Masterpieces of French Literature.**

Masterpieces of French literature in various genres from different periods with emphasis on the modern period. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FR 3310. French Pronunciation and Intonation.**

Study and intensive practice of problems in French pronunciation and intonation. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3341. Advanced Grammar in French.**

A study of more advanced grammatical, syntactical, and stylistic problems in mastering the French language with the aim of strengthening students' command of the structure of French and developing skills for more effective writing. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3350. History of European Cinema I, 1895-1960.**

This course introduces students to the history of European Cinema from the medium's origins in 1895 to the late 1950s. Students will learn about major developments in film narrative and technology in a European country from the silent to the classic eras. May be repeated for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FR 3351. History of European Cinema II, 1960 to the Present.**

This course introduces students to the history of European Cinema from the late 1950s to the present. Students will learn about major developments in film narrative and technology in a European country from the New Wave to the New European cinemas. May be repeated for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FR 3381. Business French I.**

A course designed for students interested in business related careers. The course will help students to become familiar with basic French business language and the specifics of Francophone business cultures. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3382. Business French II.**

A case study-based course that uses a simulation approach to problem-solving in a French business environment. The course objective is the development of an understanding of French practices, and the way they differ from American ones, through the analysis of contextualized situations in marketing and management. Prerequisite: FR 3381 or consent of the instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 4304A. French Translation.**

This course offers a practical introduction to translation from French to English including the translation process, translation skills, techniques and strategies, quality control, translation tools and resources, computer-assisted translation devices, translator certification, and career opportunities. The course will focus on business, technical, legal, financial, scientific, audiovisual, and literary texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4304B. French Genre Fiction.**

This course focuses on the study of specific fictional works associated with a particular genre (e.g., crime fiction, the fantastic, and science-fiction) and the authors who are exemplars of that narrative category. Prerequisite: FR 2320 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4341. French Composition and Stylistics.**

Students will incorporate their more advanced grammatical and syntactical skills with the study of style in the writing of compositions in French. Writing exercises will explore a variety of expository techniques from description, narration, dialogue, portraits, to the writing of letters. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FR 4350A. French Poetic Realist Cinema.**

This course will study the films and directors associated with Poetic Realism, the film style of the 1930s in France and an important precursor to Italian Neorealism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FR 4370. French Civilization.**

A survey of the cultural institutions of France designed to provide a background for a better understanding of the French people, encompassing the development of French culture and the forces that have shaped modern France. Recent essays, films, and comparative analyses of French-American relations will be presented. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4390. Studies in French Culture, Language, or Literature.**

A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Approval by the Chair of the Department of Modern Languages is required to enroll. Applications must be submitted prior to the registration period each semester. May be repeated once for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## Courses in German (GER)

**GER 1410. Beginning German I.**

Introduction to listening, speaking, reading, and writing skills within a German cultural framework. Students who take GER 1410 toward degree requirements must also complete GER 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GERM 1411

**GER 1420. Beginning German II.**

Continued practice in listening, speaking, reading, and writing skills within a German cultural framework. Students who take GER 1410 toward degree requirements must also complete GER 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GERM 1412

**GER 2310. Intermediate German I.**

Continued development and review of all language skills within a German cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GERM 2311

**GER 2320. Intermediate German II.**

More advanced practice in all language skills with greater emphasis on reading within a German cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GERM 2312

**GER 3304A. German Cinema.**

This course explores German film, history, and theory. Emphasis is placed on the interrelation of German and American uses of the medium. The course includes classic style (1910s), German Expressionism (1920s), cinema of Nazi Propaganda (1940s), the period of reconstruction (1950s), and the German New, and New New Waves

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3304B. German Colonialism, Orientalism, and Exoticism in Film and Literature.**

This course surveys German colonial narratives and theories from the 19th and the mid-20th century. The course examines how critics today interpret the political and aesthetic tropes around which texts are organized, focusing on how these "colonial fantasies" emphasized national differences between German and other European powers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3304C. The Many Faces of Weimar Cinema: German Expressionist Films.**

The course provides an overview of the changing roles of German cinema in the early 20th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GER 3304D. German Translation.**

In this course, students approach translation as a method of improving their reading ability in German, not only through language, but also in terms of cultural competence in dealing with texts from the German-speaking world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GER 3305. German on the Stage.**

An introduction to upper division courses in German designed to strengthen reading skills and oral command of the language through the study and performance of short German-language plays from the classical to the contemporary period. May be repeated for credit twice with different topics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GER 3310. German Phonetics.**

This course introduces students to German phonetics, primarily German pronunciation, intonation, and stress. The course is taught in German and can be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GER 3320. Improving German Communication Skills.**

Extensive practice in speaking and writing German and in mastering advanced grammatical structures in speaking and writing. Prerequisite: GER 2320 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GER 3370. German Civilization.**

An examination of German culture and life designed to provide a background for a better understanding of Germany and the Germans, encompassing historical survey of the development of German culture, the forces that shaped modern Germany, and a survey of contemporary German life and culture. Collateral readings; oral and written reports in German. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3380. Business German in Global Economy.**

An introduction to the individual economies of each German state, the language and standards of the German business world, the tourist industry of Germany, and Germany's role in the European Community. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GER 4310. Masterpieces of German Literature.**

An examination of major literary works representing the major genres and periods of German literature. The course may be repeated once with different content for additional credit. Prerequisite: completion of one 3000-level course or departmental approval. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GER 4340. Advanced Conversation, Composition, and Stylistics.**

A course designed to strengthen total command of the language. Collateral readings; oral and written reports in German. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GER 4341. Advanced German Grammar.**

Study of more advanced grammatical features of the German language essential for mastering the language and communicating effectively in it

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GER 4390. Studies in German Culture, Language, or Literature.**

A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Approval by the Chair of the Department of Modern Languages is required to enroll. Applications must be submitted prior to the registration period each semester. May be repeated once for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## Courses in Italian (ITAL)

Note: Italian courses are taught by extension. For additional information please contact the Offi of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>

**ITAL 1410. Beginning Italian I.**

Introduction to listening, speaking, reading, and writing skills within an Italian cultural framework. Students who take ITAL 1410 toward degree requirements must also complete ITAL 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 1411

**ITAL 1420. Beginning Italian II.**

Continued practice in listening, speaking, reading, and writing skills within an Italian cultural framework. Students who take ITAL 1410 toward degree requirements must also complete ITAL 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 1412

**ITAL 2310. Intermediate Italian I.**

Continued development and review of all language skills within an Italian cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 2311

**ITAL 2320. Intermediate Italian II.**

More advanced practice in all language skills with greater emphasis on reading within an Italian cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 2312

**ITAL 3308. Advanced Grammar and Composition.**

This course is designed to improve writing skills in Italian through the reading and writing of Italian texts. Focus on writing skills and the reading of selected works from Italian literature. Repeatable once with different content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Japanese ( JAPA)

**JAPA 1410. Beginning Japanese I.**

Introduction to listening, speaking, reading, and writing skills within a Japanese cultural framework. Students who take JAPA 1410 toward degree requirements must also complete JAPA 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 1411

**JAPA 1420. Beginning Japanese II.**

Continued practice in listening, speaking, reading, and writing skills within a Japanese cultural framework. Students who take JAPA 1410 toward degree requirements must also complete JAPA 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 1412

**JAPA 2310. Intermediate Japanese I.**

Continued development and review of all language skills in a Japanese cultural framework. Prerequisite: JAPA 1410 and JAPA 1420 or consent of instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 2311

**JAPA 2320. Intermediate Japanese II.**

Advanced practice in all language skills in a Japanese cultural framework. Prerequisite: JAPA 2310 or consent of instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 2312

**JAPA 3304. Advanced Conversation and Grammar.**

A course designed to strengthen oral and written command of the language. Collateral readings and reports in Japanese. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

**JAPA 3307. Advanced Japanese Writing and Grammar.**

A writing intensive course designed to strengthen students' knowledge of the structure of Japanese and written command of the language. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**JAPA 3308. Advanced Japanese for Business.**

An advanced course designed to develop the skills needed to succeed in the complex business world of Japan. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter



## Courses in Latin (LAT)

Note: Latin courses are taught by extension. For additional information please contact the Office of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>

### LAT 1410. Beginning Latin I.

Introduction to reading and writing skills in Latin with a Latin cultural framework. Students who take LAT 1410 toward degree requirements must also complete LAT 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

### LAT 1420. Beginning Latin II.

Continued practice in reading and writing skills in Latin within a Latin cultural framework. Students who take LAT 1410 toward degree requirements must also complete LAT 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

### LAT 2310. Intermediate Latin.

Introduction to complex grammatical structures and syntax of Latin. Focus on the application of the rules of grammar and syntax to the translation of original classical texts. Some attention given to the diction and written styles of individual authors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### LAT 2320. Intermediate Latin.

Continued acquisition of complex grammatical structures and syntax. Introduction to reading Latin poetry. Some attention given to meter and scansion as needed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in Applied Linguistics and Language Learning (LING)

### LING 4307. Foreign Language Acquisition.

An introduction to the nature of language development and to the theories that describe foreign language acquisition and development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### LING 4390. Independent Study in Applied Linguistics and Language Learning.

This course is generally open only to students with special needs. Students select a topic in line with their special interests and requirements. May be repeated once with different topic for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Courses in Portuguese (POR)

Note: Portuguese courses are taught by extension. For additional information please contact the Office of Correspondence and Extension Studies at 512.245.2322 or <http://www.studyanywhere.txstate.edu/>.

### POR 1410. Beginning Portuguese I.

Introduction to listening, speaking, reading, and writing skills within a Brazilian cultural framework. Students who take POR 1410 toward degree requirements must also complete POR 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 1411

### POR 1420. Beginning Portuguese II.

Continued practice in listening, speaking, reading, and writing skills within a Portuguese cultural framework. Students who take POR 1410 toward degree requirements must also complete POR 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 1412

### POR 2310. Intermediate Portuguese I.

Continued development and review of all language skills within a Portuguese cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 2311

### POR 2320. Intermediate Portuguese II.

More advanced practice in all language skills with greater emphasis on reading with a Portuguese cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 2312

### POR 3308. Advanced Composition and Conversation through the Brazilian Short Story.

This course will help students advance their knowledge of the Portuguese language through the reading, discussion, and analysis of modern and contemporary Brazilian short stories. By reading the works of renowned writers students will be able to expand their vocabulary and develop fluent reading and writing skills. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Spanish (SPAN)

### SPAN 1410. Beginning Spanish I.

Introduction to listening, speaking, reading, and writing skills within a Spanish cultural framework. Students who take SPAN 1410 toward degree requirements must also complete SPAN 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 1411

**SPAN 1420. Beginning Spanish II.**

Continued practice in listening, speaking, reading, and writing skills within a Spanish cultural framework. Prerequisite: a grade of "C" or higher in SPAN 1410. Students who take SPAN 1410 toward degree requirements must also complete SPAN 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 1412

**SPAN 2310. Intermediate Spanish I.**

Continued development and review of all language skills within a Spanish framework. Prerequisite: a grade of "C" or higher in SPAN 1420. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 2311

**SPAN 2320. Intermediate Spanish II.**

More advanced practice in all language skills with greater emphasis on reading within a Spanish cultural framework. Prerequisite: a grade of "C" or higher in SPAN 2310. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 2312

**SPAN 3301. Literatures of Spain I.**

Students will study significant literary texts of the Iberian Peninsula from the Muslim conquest in 711 A.D. through 1700. The course will also consider the literature's historical, religious, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3302. Literatures of Spain II.**

Students will study significant literary texts of the Iberian Peninsula from the Enlightenment through the twenty-first century. The course will also consider the literature's historical, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3305. Latin American Literatures I.**

Students will study literary texts in Latin American from the period before the Conquest through the Colonial and Independence periods. The course will also consider the literature's historical, religious, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3306. Latin American Literatures II.**

Students will study literary texts of Latin American from Modernismo to the twenty-first century. The course will also consider the literature's historical, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3308. Advanced Composition.**

A course designed to improve writing skills in Spanish through the reading of texts in Spanish. Prerequisite: a grade of "C" or higher in SPAN 2320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3309. Introduction to Hispanic Literature and Literary Analysis.**

This course focuses on writing skills, literary analysis, and the reading of selected works from Spanish, Latin American and Hispanic literature.

Prerequisite: a grade of "C" or higher in SPAN 2320. Corequisite:

SPAN 3308 or equivalent. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3310. Spanish Phonetics and Phonemics.**

Articulatory phonetics and sound discrimination and production; phonemic and allophonic variants; geographical and social distribution.

Prerequisite: a grade of "C" or higher in SPAN 3308. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3311. Business Spanish I.**

This course focuses on the use of written and oral Spanish in global business contexts, as well as exploring economic, demographic, and cultural factors that influence commercial interactions in the Hispanic world. Topics include business management, banking, and human resources. Prerequisites: SPAN 3308 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3312. Business Spanish II.**

This course focuses on the use of written and oral Spanish in global business contexts, as well as exploring economic, demographic, and cultural factors that influence commercial interactions in the Hispanic world. Topics include marketing, financing, and imports/exports.

Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3340. Advanced Spanish Grammar and Stylistics.**

This course places major emphasis on syntax, usage, and grammatical nomenclature. Prerequisite: a grade of "C" or higher in SPAN 3308.

(MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3370. Spanish Civilization.**

Students will study the civilizations and cultures of Spain. The course provides a background for understanding Spanish society. Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3371. Latin American Civilization.**

Students will study the cultures of Latin America and the Hispanic U.S. The course provides a background of the history and civilization of both groups. Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4302. The Spanish Novel.**

Students will study selected novels of Spain from the 16th through the 21st century. The course will also consider the literature's historical, religious, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4311. Historical Aspects of Hispanic Linguistics.**

Historical Aspects of Hispanic Linguistics. (3-0) Course designed to develop knowledge and skills required for analysis and discussion of structural and external aspects of the history of the Spanish language with special focus on word formation and social aspects of language variation. The course provides an overview of morphology, sociolinguistics, and historical linguistics. Prerequisite: A grade of "C" or higher in SPAN 3308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 4312. Contemporary Aspects of Hispanic Linguistics.**

This course is designed to develop knowledge and skills required for analysis and discussion of the structural and social aspects of the Spanish language. The course provides an overview of semantics, syntax, pragmatics, dialectology, and language acquisition in Spanish. Prerequisite: SPAN 3308 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 4330. The Latin American Novel.**

Students will study selected novels from Latin America. The course will also consider the literature's historical and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4350. Hispanic Film.**

Students will study Hispanic artistic, cultural, and historical issues through film and selected readings. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4361. Hispanic Poetry.**

Students will read and analyze selected poems from Latin America and Spain. The course will consider the cultural and historical contexts of the works. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4362. Hispanic Drama.**

Students will read and analyze selected plays from Latin America and Spain. The course will also consider the cultural context of the works.

Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4370. Hispanic Literature of the Southwest.**

Students will study the Hispanic literature of the Southwest in order to have a better understanding of the cultural diversity of the region.

Prerequisite: SPAN 3309 a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380A. Hispanic Nobel Prizes in Literature.**

Prerequisite: a grade of "C" or higher in SPAN 3309. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380D. Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, focusing on literature, history, politics, and popular culture of Latin America. Prerequisite: a grade of "C" or higher in SPAN 3309. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380E. Translation Practice and Theory.**

An introduction to Spanish translation at the upper division. The object of the course is to improve reading comprehension – a fundamental skill for translators-, language proficiency, and cultural and historical knowledge of the target language. Prerequisite: a grade of "C" or higher in SPAN 3308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 4380F. Mexican Literature.**

This course focuses on the most representative works of Mexican Literature produced since Mexican Independence in the early 19th century. Course objectives include a better understanding of major literary trends and the cultural development of Mexican society since its beginning as an independent republic. Prerequisite: Grade of "C" or higher in SPAN 3308. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380G. Women, Minorities and Marginal Groups in Medieval Spanish Literature.**

This course will present some of the principal literary works which portray women, religious minorities and marginal groups in medieval Spain. Special focus will be given on deconstructing historical myths and stereotypes based on behavioral, religious and sexual identity as reflected by the authors and their selected works. Prerequisite: SPAN 3308 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380H. Nature and Nation in Latin American Literature.**

Students will study the interaction of nature and nation in Latin American literature after Independence by taking into account both Western and indigenous approaches to nature. Students will read a selection of literary works that reinforce and/or contest notions of nature, nation and cultural identity. Prerequisite: SPAN 3309 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380I. Spanish and Media.**

This course provides an overview of mass communication in Spanish-speaking regions of the world. Students will explore the use of radio, television, newspapers, and the internet, as practiced in various Hispanic cultural contexts. Prerequisite: SPAN 3308 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 4390. Studies in Spanish Culture, Language, or Literature.**

The course is generally available only to graduating seniors who have completed several advanced courses or graduate students with special needs. Repeatable for credit with different emphasis. Prerequisite: a grade of "C" or higher in Spanish 3308, approval by the Chair of the Department of Modern Languages and the Spanish Division Head. Applications must be submitted prior to the registration period each semester. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in French

**Minimum required: 120 semester hours**

**General Requirements**

1. Majors must complete 24 upper division hours in French and maintain a GPA of at least a 2.50 in all upper division French course work to meet graduation requirements.
2. A minor must be completed.
3. Majors must satisfy general education core curriculum and B.A. requirements.

		Freshman		
	First Semester	Hours	Second Semester	Hours
COMM 1310		3	HIST 1310	3
ENG 1310		3	ENG 1320	3
US 1100		1	MATH 1312 (or higher)	3
POSI 2310		3	FR 1420	4
FR 1410		4		
		14		13

		Sophomore		
	First Semester	Hours	Second Semester	Hours
PHIL 1305 or 1320		3	POSI 2320	3
Select one of the following (ENG Literature):		3	FR 2320	3
ENG 2310			Life and Physical Sciences	3
ENG 2320			Select one of the following (ENG Literature):	3
ENG 2330			ENG 2310	
ENG 2340			ENG 2320	
ENG 2359			ENG 2330	
ENG 2360			ENG 2340	
FR 2310		3	ENG 2359	
Life and Physical Sciences		3	ENG 2360	
HIST 1320		3	Social and Behavioral Sciences	3
		15		15

		Junior		
	First Semester	Hours	Second Semester	Hours
Select one of the following:		3	FR upper division hours	9
ART 2313			Minor	6
DAN 2313				
MU 2313				
TH 2313				
Minor		3		
B.A. Science		3		
FR upper division hours		6		
		15		15

		Senior		
	First Semester	Hours	Second Semester	Hours
FR upper division hours		6	FR upper division hours	3
Minor		9	Electives as needed	15
		15		18

Total Hours: 120

## Bachelor of Arts (B.A.) Major in French (Teacher Certification in French, Grades EC-12)

**Minimum required: 123 semester hours**  
**General Requirements**

1. Majors must complete 24 upper division hours in French and maintain a GPA of at least 2.50 in all upper division French course work to meet graduation requirements.

2. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.
3. A minor must be completed.
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

<sup>1</sup> Majors must complete LING 4307, CI 3325, CI 4332, CI 4343, CI 4370; RDG 3323; and EDST 4681. The education sequence course work must be completed before student teaching.

## Bachelor of Arts (B.A.) Major in German

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete 24 upper division hours in German and maintain a GPA of at least 2.50 in all upper division German course work to meet graduation requirements.
2. An approved minor must be completed.
3. Majors must satisfy general education core curriculum and B.A. requirements

Freshman			
First Semester Hours		Second Semester Hours	
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	MATH 1312 (or higher)	3
POSI 2310	3	Minor	3
FR 1410	4	FR 1420	4
14		16	

Sophomore			
First Semester Hours		Second Semester Hours	
PHIL 1305 or 1320	3	POSI 2320	3
Select one of the following (ENG Literature):	3	FR 2320	3
ENG 2310		Life and Physical Sciences	3
ENG 2320		Select one of the following (English Literature):	3
ENG 2330		ENG 2310	
ENG 2340		ENG 2320	
ENG 2359		ENG 2330	
ENG 2360		ENG 2340	
Minor	3	ENG 2359	
FR 2310	3	ENG 2360	
Life and Physical Sciences	3	Social and Behavioral Sciences	3
HIST 1320	3		
18		15	

Junior			
First Semester Hours		Second Semester Hours	
Select one of the following:	3	CI 4332 <sup>1</sup>	3
ART 2313		CI 3325 <sup>1</sup>	3
DAN 2313		FR upper division hours	9
MU 2313		Minor	3
TH 2313			
B.A. Science	3		
FR upper division hours	9		
Minor	3		
18		18	

Senior			
First Semester Hours		Second Semester Hours	
LING 4307 <sup>1</sup>	3	EDST 4681 <sup>1</sup>	6
CI 4370 <sup>1</sup>	3		
CI 4343 <sup>1</sup>	3		
RDG 3323 <sup>1</sup>	3		
FR upper division hours	6		
18		6	

Total Hours: 123

Freshman			
First Semester Hours		Second Semester Hours	
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	MATH 1312 (or higher)	3
POSI 2310	3	GER 1420	4
GER 1410	4		
14		13	

Sophomore			
First Semester Hours		Second Semester Hours	
PHIL 1305 or 1320	3	POSI 2320	3
Select one of the following (English Literature):	3	GER 2320	3
ENG 2310		Life and Physical Sciences	3
ENG 2320		Select one of the following (English Literature):	3
ENG 2330		ENG 2310	
ENG 2340		ENG 2320	
ENG 2359		ENG 2330	
ENG 2360		ENG 2340	
GER 2310	3	ENG 2359	
Life and Physical Sciences	3	ENG 2360	
HIST 1320	3	Social and Behavioral Sciences	3
15		15	

Junior			
First Semester Hours		Second Semester Hours	
Select one of the following:	3	GER upper division hours	9
ART 2313		Minor	6
DAN 2313			
MU 2313			
TH 2313			
Minor	3		
B.A. Science	3		
GER upper division hours	6		
15		15	



	First Semester Hours	Second Semester Hours	Senior
GER upper division hours	6	6	3
Minor	9	Electives as needed	15
	15		18

Total Hours: 120

## Bachelor of Arts (B.A.) Major in German (Teacher Certification in German, Grades EC-12)

**Minimum required: 123 semester hours**

### General Requirements

1. Majors must complete 24 upper division hours in German and maintain a GPA of at least 2.50 in all upper division German course work to meet graduation requirements.
2. An approved minor must be completed.
3. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

	First Semester Hours	Second Semester Hours	Freshman
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	MATH 1312 (or higher)	3
POSI 2310	3	Minor	3
GER 1410	4	GER 1420	4
	14		16

	First Semester Hours	Second Semester Hours	Sophomore
PHIL 1305 or 1320	3	POSI 2320	3
Select one of the following (English Literature):	3	GER 2320	3
ENG 2310		Life and Physical Sciences	3
ENG 2320		Select one of the following (English Literature):	3
ENG 2330		ENG 2310	
ENG 2340		ENG 2320	
ENG 2359		ENG 2330	
ENG 2360		ENG 2340	
Minor	3	ENG 2359	
GER 2310	3	ENG 2360	
Life and Physical Sciences	3	Social and Behavioral Sciences	3
HIST 1320	3		
	18		15

	First Semester Hours	Second Semester Hours	Junior
Select one of the following:	3	CI 4332 <sup>1</sup>	3
ART 2313		CI 3325 <sup>1</sup>	3

DAN 2313	GER upper division hours	9
MU 2313	Minor	3
TH 2313		
B.A. Science	3	
GER upper division hours	9	
Minor	3	

18 18

	First Semester Hours	Second Semester Hours	Senior
LING 4307 <sup>1</sup>	3	EDST 4681 <sup>1</sup>	6
CI 4370 <sup>1</sup>	3		
CI 4343 <sup>1</sup>	3		
RDG 3323 <sup>1</sup>	3		
GER upper division hours	6		
	18		6

Total Hours: 123

<sup>1</sup> Majors must complete LING 4307, CI 3325, CI 4332, CI 4343, CI 4370; RDG 3323; and EDST 4681. The education sequence course work must be completed before student teaching.

## Bachelor of Arts (B.A.) Major in Spanish

**Minimum required: 120 semester hours**

### General Requirements

1. Majors must complete 24 upper division hours in Spanish and maintain a GPA of at least 2.50 in all upper division Spanish course work to meet graduation requirements.
2. Majors should complete:

SPAN 3308	Advanced Composition <sup>1</sup>	3
SPAN 3309	Introduction to Hispanic Literature and Literary Analysis <sup>2</sup>	3
SPAN 3340	Advanced Spanish Grammar and Stylistics	3
Select three of the following:		9

SPAN 3301	Literatures of Spain I	
SPAN 3302	Literatures of Spain II	
SPAN 3305	Latin American Literatures I	
SPAN 3306	Latin American Literatures II	
SPAN 3310	Spanish Phonetics and Phonemics	
SPAN 3311	Business Spanish I	
SPAN 3312	Business Spanish II	
SPAN 3370	Spanish Civilization	
SPAN 3371	Latin American Civilization	

Select two of the following: 6

SPAN 4302	The Spanish Novel	
SPAN 4311	Historical Aspects of Hispanic Linguistics	
SPAN 4312	Contemporary Aspects of Hispanic Linguistics	
SPAN 4330	The Latin American Novel	
SPAN 4350	Hispanic Film	
SPAN 4361	Hispanic Poetry	
SPAN 4362	Hispanic Drama	
SPAN 4370	Hispanic Literature of the Southwest	

SPAN 4380A	Hispanic Nobel Prizes in Literature	
SPAN 4380D	Gabriel Garcia Marquez	
SPAN 4380E	Translation Practice and Theory	
SPAN 4380F	Mexican Literature	
SPAN 4380G	Women, Minorities and Marginal Groups in Medieval Spanish Literature	
SPAN 4380H	Nature and Nation in Latin American Literature	
<b>Total Hours</b>		<b>24</b>

<sup>1</sup> Prerequisite to all other upper division courses, may be taken simultaneously with SPAN 3309.

<sup>2</sup> Prerequisite to all other upper division courses in literature, may be taken simultaneously with SPAN 3308.

3. An approved minor must be completed.

4. Majors must satisfy general education core curriculum and B.A. requirements.

<b>Freshman</b>			
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
COMM 1310	3	HIST 1310	3
ENG 1310	3	ENG 1320	3
US 1100	1	MATH 1312 (or higher)	3
POSI 2310	3	SPAN 1420	4
SPAN 1410	4		
	<b>14</b>		<b>13</b>

<b>Sophomore</b>			
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
PHIL 1305 or 1320	3	POSI 2320	3
Select one of the following (English Literature):	3	SPAN 2320	3
ENG 2310		Life and Physical Sciences	3
ENG 2320		Select one of the following (English Literature):	3
ENG 2330		ENG 2310	
ENG 2340		ENG 2320	
ENG 2359		ENG 2330	
ENG 2360		ENG 2340	
SPAN 2310	3	ENG 2359	
Life and Physical Sciences	3	ENG 2360	
HIST 1320	3	Social and Behavioral Sciences	3
	<b>15</b>		<b>15</b>

<b>Junior</b>			
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
Select one of the following:	3	SPAN upper division hours	9
ART 2313		Minor	6
DAN 2313			
MU 2313			
TH 2313			
Minor	3		
B.A. Science	3		
SPAN upper division hours	6		
	<b>15</b>		<b>15</b>

	<b>First Semester Hours</b>	<b>Second Semester Hours</b>	
SPAN upper division hours	6	SPAN upper division electives	3
Minor	9	Electives as needed	15
	<b>15</b>		<b>18</b>

Total Hours: 120

## Bachelor of Arts (B.A.) Major in Spanish (Teacher Certification in Spanish, Grades EC-12)

**Minimum required: 123 semester hours**

### General Requirements

1. Majors must complete 24 upper division hours in Spanish and maintain a GPA of at least 2.50 in all upper division Spanish course work to meet graduation requirements.

2. Majors should complete:

SPAN 3308	Advanced Composition <sup>1</sup>	3
SPAN 3309	Introduction to Hispanic Literature and Literary Analysis <sup>2</sup>	3
SPAN 3340	Advanced Spanish Grammar and Stylistics	3

Select three of the following: 9

SPAN 3301	Literatures of Spain I	
SPAN 3302	Literatures of Spain II	
SPAN 3305	Latin American Literatures I	
SPAN 3306	Latin American Literatures II	
SPAN 3370	Spanish Civilization	
SPAN 3371	Latin American Civilization	

Select two of the following: 6

SPAN 4302	The Spanish Novel	
SPAN 4330	The Latin American Novel	
SPAN 4350	Hispanic Film	
SPAN 4361	Hispanic Poetry	
SPAN 4362	Hispanic Drama	
SPAN 4370	Hispanic Literature of the Southwest	

SPAN 4380A	Hispanic Nobel Prizes in Literature	
SPAN 4380D	Gabriel Garcia Marquez	
SPAN 4380E	Translation Practice and Theory	
SPAN 4380F	Mexican Literature	
SPAN 4380G	Women, Minorities and Marginal Groups in Medieval Spanish Literature	
SPAN 4380H	Nature and Nation in Latin American Literature	

Total Hours 24

<sup>1</sup> Prerequisite to all other upper division courses, may be taken simultaneously with SPAN 3309.

<sup>2</sup> Prerequisite to all other upper division courses in literature, may be taken simultaneously with SPAN 3308.

3. Majors must select a minor from the approved list of minors.

4. Majors must satisfy general education core curriculum, and B.A. requirements.

5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman	
First Semester Hours	Second Semester Hours
COMM 1310	3 HIST 1310
ENG 1310	3 ENG 1320
US 1100	1 MATH 1312 (or higher)
POSI 2310	3 Minor
SPAN 1410	4 SPAN 1420
14	16

Sophomore	
First Semester Hours	Second Semester Hours
PHIL 1305 or 1320	3 POSI 2320
Select one of the following (English Literature):	3 SPAN 2320
ENG 2310	Life and Physical Sciences
ENG 2320	Select one of the following (English Literature):
ENG 2330	ENG 2310
ENG 2340	ENG 2320
ENG 2359	ENG 2330
ENG 2360	ENG 2340
Minor	3 ENG 2359
SPAN 2310	3 ENG 2360
Life and Physical Sciences	3 Social and Behavioral Sciences
HIST 1320	3
18	15

Junior	
First Semester Hours	Second Semester Hours
Select one of the following:	3 CI 4332 <sup>1</sup>
ART 2313	CI 3325 <sup>1</sup>
DAN 2313	SPAN upper division hours
MU 2313	Minor
TH 2313	
B.A. Science	3
SPAN upper division hours	9
Minor	3
18	18

Senior	
First Semester Hours	Second Semester Hours
LING 4307 <sup>1</sup>	3 EDST 4681 <sup>1</sup>
CI 4370 <sup>1</sup>	3
CI 4343 <sup>1</sup>	3
RDG 3323 <sup>1</sup>	3
SPAN upper division hours	6
18	6

Total Hours: 123

<sup>1</sup> Majors must complete LING 4307, CI 3325, CI 4332, CI 4343, CI 4370; RDG 3323; and EDST 4681. The education sequence course work must be completed before student teaching.

## Minor in French

A minor in French requires 15 upper division hours in the language. The first two years of beginning and intermediate level course work serve as prerequisites to all upper division courses. These prerequisites include FR 1410, FR 1420, FR 2310, and FR 2320.

FR 1410	Beginning French I <sup>1</sup>	4
FR 1420	Beginning French II <sup>1</sup>	4
FR 2310	Intermediate French I <sup>1</sup>	3
FR 2310	Intermediate French I <sup>1</sup>	3
Advanced Hours in French		15
Total Hours		29

<sup>1</sup> Students may satisfy these prerequisites by passing a credit-bearing test (e.g. CLEP or departmental proficiency exam) or successfully completing the courses.

## Minor in German

A minor in German requires 15 upper division hours in the language. The first two years of beginning and intermediate level course work serve as prerequisites to all upper division courses. These prerequisites include GER 1410, GER 1420, GER 2310, and GER 2320.

GER 1410	Beginning German I <sup>1</sup>	4
GER 1420	Beginning German II <sup>1</sup>	4
GER 2310	Intermediate German I <sup>1</sup>	3
GER 2310	Intermediate German I <sup>1</sup>	3
Advanced hours in German		15
Total Hours		29

<sup>1</sup> Students may satisfy these prerequisites by passing a credit-bearing test (e.g. CLEP or departmental proficiency exam) or successfully completing the courses.

## Minor in Japanese

A minor in Japanese requires 12 upper division hours in the language. The first two years of beginning and intermediate level course work serve as prerequisites to all upper division courses. These prerequisites include JAPA 1410, JAPA 1420, JAPA 2310, and JAPA 2320.

JAPA 1410	Beginning Japanese I <sup>1</sup>	4
JAPA 1420	Beginning Japanese II <sup>1</sup>	4
JAPA 2310	Intermediate Japanese I <sup>1</sup>	3
JAPA 2310	Intermediate Japanese I <sup>1</sup>	3
Advanced hours in Japanese		12
Total Hours		26

<sup>1</sup> Students may satisfy these prerequisites by passing a credit-bearing test (e.g. CLEP or departmental proficiency exam) or successfully completing the courses.

## Minor in Spanish

A minor in Spanish requires 15 upper division hours in the language. The first two years of beginning and intermediate level course work serve as prerequisites to all upper division courses. These courses are SPAN

1410, SPAN 1420, SPAN 2310, and SPAN 2320. In addition, SPAN 3308 is a prerequisite to all other upper division courses, and SPAN 3309 is a prerequisite to all other upper division literature courses.

SPAN 1410	Beginning Spanish I <sup>1</sup>	4
SPAN 1420	Beginning Spanish II <sup>1</sup>	4
SPAN 2310	Intermediate Spanish I <sup>1</sup>	3
SPAN 2310	Intermediate Spanish I <sup>1</sup>	3
Advanced hours in Spanish		15
Total Hours		29

<sup>1</sup> Students may satisfy these prerequisites by passing a credit-bearing test (e.g. CLEP or departmental proficiency exam) or successfully completing the courses.

## Department of Philosophy

Comal Building Room 102

T: 512.245.2285 F: 512.245.8335

[www.txstate.edu/philosophy](http://www.txstate.edu/philosophy) (<http://www.txstate.edu/philosophy>)

Philosophy raises some of the most fundamental questions about our world and ourselves—questions about the nature of reality, knowledge, morality, God, and society. Students of philosophy study the thinking of major philosophers on such matters and learn to think critically and clearly on their own.

Since philosophy is the home of the study of logic and the principles of good argumentation, it lends itself well to being joined with virtually any course of study. Some philosophy majors pursue careers in business, journalism, law, medicine, and education. In these cases students recognize that the successful practitioner is the good thinker and turn to philosophy to develop their critical and creative powers. Other majors develop an interest in becoming professional philosophers and enroll in some of the nation's best graduate programs in philosophy.

For those students with special interests in a particular area, the department offers the following recommendations:

### Pre-Professional Study of Philosophy

Students interested in pursuing graduate work in philosophy are advised to take:

PHIL 3320	Ethics	3
PHIL 3340	Symbolic Logic	3
PHIL 4356	Philosophical Theory of Knowledge	3
PHIL 4370	Metaphysics	3

They should also develop a language proficiency in French or German.

### Pre-Law

All pre-law students should consider an undergraduate major in philosophy, given the importance that both philosophy and law attach to analysis, argumentation, and the evaluation of evidence. Pre-law students should also consider taking the following electives:

PHIL 2330	Elementary Logic	3
PHIL 3320	Ethics	3
PHIL 3322	Professional Ethics	3
PHIL 3323	Environmental Ethics	3

PHIL 3331	Philosophy of Law	3
PHIL 3332	Social and Political Philosophy	3

## Pre-Professional Study of Religion

A minor in religious studies is appropriate for various professional plans, including education, journalism, the arts, ministry, and graduate work in religious studies and other humanities and social sciences. Students interested in graduate work in religious studies should combine the minor with a major appropriate to their plans and interests.

## Bachelor of Arts (B.A.)

- Philosophy (p. 441)

## Minors

- Philosophy (p. 442)
- Religious Studies (p. 442)
- Value Studies (p. 442)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: PHIL (p. 437), REL (p. 440)**

## Courses in Philosophy (PHIL)

### PHIL 1305. Philosophy and Critical Thinking.

A study of universal philosophical problems and their solutions with a view toward developing clear thinking about knowledge, belief, and value. Approximately one half of this course will focus on the student's critical thinking skills. Credit cannot be given for both PHIL 1305 and PHIL 3301. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 1301

### PHIL 1320. Ethics and Society.

Study of ethics, its recent focus on social problems, and new fields of inquiry, including environmental ethics, ethics in business, professions, technology and sport. Also such global issues as poverty, minority rights, and stem cell research. Emphasis on development and application of principles of critical thinking and moral reasoning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2306

### PHIL 1330. Critical Thinking.

Study of informal fallacies, valid argument forms, problem solving strategies, language clarification, and application of analytic skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 2311. History of Philosophy Before 1600.**

Early Greek, Roman, and medieval systems of thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2316

**PHIL 2312. History of Philosophy Since 1600.**

Modern philosophical thought through the 19th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2317

**PHIL 2330. Elementary Logic.**

A study of the nature and forms of correct reasoning, both deductive and inductive

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2303

**PHIL 3301. Philosophical Issues.**

The great philosophical concepts that have challenged the best thoughts of people and have contributed to the fulfillment of the good life.

Emphasis upon the applicability of those concepts to human life in our time and to the development of intellectual perspective. Approximately one half of this course will focus on the student's critical thinking skills. Credit cannot be given for both PHIL 3301 and PHIL 1305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3314. American Philosophy.**

Examination of contributions of Americans to perennial philosophical issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3315. Contemporary Philosophy.**

Selected readings in late 19th and 20th century philosophy: existentialism, positivism, analytic philosophy, phenomenology, and pragmatism. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3316. Existentialism and Phenomenology.**

A study of the nature of human experience and existence in the philosophies of Kierkegaard, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, and Camus. Topics will include freedom, dread, emotion, death, other minds, faith, and the past as experienced by the individual. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3317. Science and Religion.**

An examination of modern science and Western religion, and an analysis of the issues and ideas involved in the relationships between them.

Prerequisites: 3 hours of lower division PHIL, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3318. Reason, God and Nature.**

An analysis of the concept of God, terms predicated on God, and theological propositions. An attempt to determine the nature of religious utterances in comparison with those of everyday life, scientific discovery, morality, and imaginative expression. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3320. Ethics.**

A study of classical and contemporary philosophical inquiries into our knowledge of the "good" and the grounds of moral obligation. May be repeated once for additional credit. (Capstone) Prerequisite: Three hours of lower division PHIL, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3321. Contemporary Moral Problems.**

Contemporary Moral Problems. (3-0) Exploration of philosophical dimensions of contemporary moral problems such as abortion, euthanasia, poverty, animal rights, nuclear war, and privacy in a computer age. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3322. Professional Ethics.**

Study of major topics in business and professional ethics, including what a profession is, whether it differs from business, and what is involved with the moral education, social responsibilities, and ethical standards of professionals and business people. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3323. Environmental Ethics.**

Study of ethical issues associated with the environment including nature, use, preservation, and restoration of the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 3324. Meaning of Life.**

Investigation of major theories of the meaning of life in Western and Eastern philosophies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**PHIL 3325. Philosophy of Sex and Love.**

Critical survey of major thinking on sex and love from ancient to modern times. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3326. Philosophy and Sport.**

Examines philosophical issues in sport, including the social significance of sport, ethical issues, gender equity, sport and race, mind and body in sport, aesthetics, sport and self-knowledge, and the connection of sport and philosophy. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3331. Philosophy of Law.**

The major theses which have been set forth in the history of jurisprudence including foundations of law, natural law, legal positivism, and the judicial process. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3332. Social and Political Philosophy.**

Critical examination of major theories concerning the organization of societies and governments. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3333. Feminist Theory.**

This course will examine major feminist theories including liberal feminism, Marxist feminism, radical feminism, and post-modernist feminism with an eye especially to revealing the complexity and diversity of contemporary feminist thought. Prerequisite: Three hours of lower division philosophy, PHIL 3301, WS 3376 or WS 3377, or permission of the instructor. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3340. Symbolic Logic.**

Study of the logic of propositions through prepositional calculi, formal proofs, and first-order functional calculi. Also included is an investigation into the axiomatic method as used in logic and mathematics, including the concepts of completeness and consistency. Prerequisite: PHIL 2330, or MATH 2372, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 3351. Philosophy and Literature.**

The course explores the relation between philosophy and literature. Prerequisite: Three hours lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4301. Applied Philosophy.**

Practical application of methods and teaching of philosophy to religion, science, morality, politics, art, or literature. The study of one or more of these areas will demonstrate how philosophy contributes to the identification of issues as well as their resolution. May be repeated for credit. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4302. Dialogue.**

Study of literature about the nature, purpose, and significance of dialogue along with active participation in the dialogues of the Department of Philosophy's Dialogue Series. Prerequisite: PHIL 1305 or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4303. Philosophy of Technology.**

Study of philosophical and ethical dimensions of technology including the nature of technology and technological progress, the relation of humans to the technological environment, whether technology is value-laden, and the social character of technology. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4327. Bioethics.**

In this course students will study ethical issues, dilemmas, codes of conduct, and social responsibilities of health care professionals and bioresearchers. Additionally, students will critically examine issues of ethics and justice in healthcare systems, clinical practice, and biotechnology. Prerequisite: PHIL 1305 or PHIL 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4350. Philosophy of the Arts.**

A critical and historical analysis of the nature of aesthetic experience and creative genius. Prerequisite: three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4351. Philosophy of Education.**

Study of major philosophical theories on nature, values, and purpose of education. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4355. Philosophical Theory of Science.**

Study of the major theories concerning the nature and value of science and the scientific method. Repeatable for credit with different emphasis. Prerequisite: 3 hours of lower division philosophy, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4356. Philosophical Theory of Knowledge.**

A study of the major theories concerning knowledge, belief, certainty, and perception. Repeatable for credit with different emphasis. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4370. Metaphysics.**

Systematic study of metaphysical problems by examination of classical and modern texts. Topics considered will involve being and unity, mind and matter, God, causation and necessity, free will and determinism. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4371. Asian Philosophy.**

The course covers mainly Chinese and Indian philosophy, such as Confucianism, Taoism, Buddhism. How do people in the orient look at the meanings of life, the nature of the world and their place in the world? This course shall shed light on these issues. May be repeated for credit. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4372. Latin American Philosophy.**

Study of ancient Latin American thought, including Mayan, Aztec, Toltec, and Incan, pre- and post conquest Latin American philosophy, contemporary Latin American philosophy, and the thinking of Latin Americans in the U.S. Prerequisite: PHIL 1305 or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4388. Problems in Philosophy.**

Independent study of specific problems in philosophy. Open to students on an individual or small group basis by arrangement with the Department of Philosophy. Problem area, bibliography, and study paper outline are to be approved by the instructor. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. May be repeated once for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**Courses in Religion (REL)****REL 1300. World Religions.**

This course will be a survey and comparative study of the major religions of the world including Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, and the Indigenous Religions. Recommended as an entry course for religion minors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2310. Introduction to the Hebrew Bible.**

An introduction to the contemporary academic study of the Hebrew Bible ("Old Testament") and related Near Eastern and Second Temple Jewish literature. Representative texts will be examined using the historical and literary methods of scholarship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2315. Introduction to the New Testament.**

An introduction to the contemporary academic study of the New Testament, including apocryphal and post-canonical works. Representative texts will be examined using the historical and literary methods of scholarship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2321. Founders, Prophets and Saints.**

Critical analysis of the life, works, and thought of a major religious figure, e.g., Jesus, Paul, Luther, St. Teresa, Maimonides, the Baal Shem Tov, Mohammad, al-Ghazzali, Rumi, Buddha, Gandhi. May be repeated for credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 2350. Mediterranean and European Religions.**

This course is a survey of religions that originated in the Near East, Mediterranean, and Europe, with emphasis on the ancient to medieval periods. The course includes Judaism, Christianity, and Islam, in the contexts of Egyptian, Persian, Greco-Roman, and old European traditions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2360. Asian Religious Traditions.**

This course is a survey of the major religious traditions originating in Asia: Hinduism, Buddhism, Taoism, and others. Basic doctrines and practices will be covered in an historical framework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3330. Religious Controversy in America.**

Students in this course will analyze religious controversies and crises in America from the colonies to the present in order to interpret the role of religion in American history, culture, law, and politics. Topics include the Salem Witch Trials, the Jim Jones massacre, and Ten Commandments monuments on government property. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3335. Cults and New Religious Movements.**

This course will investigate New Religious Movements (NRMs) primarily within the contemporary American context. Controversial and emerging religions can be approached from many angles. Accordingly, the course will introduce students to a variety of theoretical perspectives and approaches for studying NRMs. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3340. Religion, Literature, and the Arts.**

The course features a thematic selection of literary and artistic works in order to examine the connections and disconnections between the aesthetic and religious aspects of human culture. May be taken twice for credit with different topics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3342. The Homeric Epic: The Iliad and the Odyssey.**

A close reading of the Iliad and the Odyssey in English translation, with emphasis on philosophical and religious issues. Prominent topics include the gods, religious rituals, heroic ethics, and the human condition. The course also considers the concept of a classic in religion and literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361A. Religion and Film.**

This course examines how religions are reflected in film and how films have taken on some of the functions of religion. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361B. Mysticism.**

This course explores the dimension of mysticism that pervades both Western and Eastern religious traditions. We will analyze the nature of mystical experiences through a study of key figures and texts, and examine its peculiar relationship to language, arts, and human subjectivity and its place in the wider social context. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361C. Philosophical Issues in Judaism, Christianity, and Islam.**

This course provides a comparative perspective on philosophical issues that arise in Judaism, Christianity, and Islam, including the nature of God, reason and revelation, and religious ethics. Readings will draw on both classical and contemporary sources. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3370. Mythology and Cosmology.**

This course examines human efforts to address questions of cosmic origins, with a global, comparative survey of cosmogonic (creation) myths and a historical approach to modern cosmology. It examines the features and functions of mythopoetic and scientific thought, and reflects philosophically on questions of origin and meaning. May be taken twice for credit with different topics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REL 3372. Apocalypticism.**

An historical-cultural survey of end-of-the-world literature, art, and thought in Western Civilization, from ancient Judaism and Christianity to the present. Historical and scientific methods provide the framework for this course. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3381. The Philosophical and Spiritual Heritage of India.**

Indian philosophers predominantly present a spiritual, multi-dimensional outlook on the nature of reality and human consciousness; they combine reason, experience, yoga and meditation as methods of inquiry. This course will explore Indian spiritual philosophy from the time of the ancient Vedas to the contribution of modern sages. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3385. Buddhism.**

This course surveys the main ideas, myths, symbols and practices of the diverse forms of Buddhism. Students will also get acquainted with the manner in which Buddhist perspectives have influenced social values and arts in the South East and East Asian cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 4300. Advanced Methods in Religious Studies.**

This course provides a rigorous grounding in the intellectual tradition of academic religious studies. It includes the major theorists and a sustained examination of the problem of method. This course is strongly urged for RS minors and students intending graduate work in the field. Prerequisite: At least one course from those included in the minor; two recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 4388. Problems in Religion.**

Independent study of specific topics in religion. Open to students on an individual or small group basis. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Philosophy

**Minimum required: 120 semester hours**  
**General Requirements**

1. The major requires 30 hours, including:		
PHIL 1305	Philosophy and Critical Thinking	3
PHIL 2311	History of Philosophy Before 1600	3
PHIL 2312	History of Philosophy Since 1600	3
PHIL 2330	Elementary Logic	3
	Advanced Philosophy electives	18
	<b>Total Hours</b>	<b>30</b>

2. Graduating seniors must submit a portfolio of their work and participate in an exit interview with the Philosophy faculty. Details about the portfolio are available in the Department's main office.
3. Majors must satisfy general education core curriculum and B.A. requirements.
4. Majors must complete an approved minor.
5. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the 120 and/or the 36 advanced and 9 hour writing intensive total hours required for graduation.

Freshman			
	First Semester Hours	Second Semester Hours	
ENG 1310	3	Modern Language 1420	4
US 1100	1	ENG 1320	3
Modern Language 1410	4	PHIL 2330 (meets B.A. Science)	3
Life and Physical Sciences	3	Life and Physical Sciences	3
PHIL 1305	3	COMM 1310	3
Elective	3		
	17		16

Sophomore			
	First Semester Hours	Second Semester Hours	
POSI 2310	3	POSI 2320	3
MATH 1312 (or above)	3	PHIL 2312	3
Modern Language 2310	3	Select one of the following (English Literature):	3
PHIL 2311	3	ENG 2310	
HIST 1310	3	ENG 2320	
		ENG 2330	
		ENG 2340	
		ENG 2359	
		ENG 2360	
		Modern Language 2320	3
		HIST 1320	3
	15		15

Junior			
	First Semester Hours	Second Semester Hours	
PHIL advanced electives	6	Social and Behavioral Sciences	3
Select one of the following:	3	PHIL advanced electives	3
ART 2313		Minor	6
DAN 2313			
MU 2313			
TH 2313			
Minor	3		
Select one of the following	3		
English Literature courses:			
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			

Senior			
	First Semester Hours	Second Semester Hours	
PHIL advanced electives	6	PHIL advanced electives	3
Electives (as needed)	6	Minor	6
Minor	3	Electives (as needed)	6
	15		15

Total Hours: 120

## Minor in Philosophy

A minor in Philosophy requires 18 hours, including:

PHIL 1305	Philosophy and Critical Thinking	3
PHIL electives, 12 of which must be advanced		15
Total Hours		18

## Minor in Religious Studies

A minor in Religious Studies is an interdisciplinary minor that requires 18 hours, selected from:

Select six of the following:		18
ANTH 3305	Magic, Ritual and Religion	
ANTH 3322	Peoples and Cultures of Africa	
ANTH 3326	Maya History and Society	
ANTH 3332	Myths and Moundbuilders	
ANTH 3349	The Incas	
ANTH 4320	Rise of Civilization	
ARTH 2301	Ancient to Medieval Art	
ARTH 2302	Renaissance to Modern Art	
ENG 3329	Mythology	
HIST 3312	Renaissance and Reformation	
HIST 4320	Origins of Christianity	
HIST 4325	Islamic History to 1798	
HIST 4348	Mahatma Gandhi in World History	
PHIL 3317	Science and Religion	
PHIL 3318	Reason, God and Nature	
PHIL 4371	Asian Philosophy	
PHIL 4388	Problems in Philosophy	
POSI 3306	Religion and American Public Life	
POSI 4313	Islamic Law and Politics	
POSI 4328	The Holocaust	
ALL REL courses		
Total Hours		18

Students should check with each department for any prerequisites.

## Minor in Value Studies

This minor allows a student with special interests in value theory to pursue a course of study, which culminates in an independent research project in value studies. This project may be a study of a theoretical issue in value studies or something of an applied nature; students may affiliate

with people in various work environments or service learning settings to identify value conflicts and suggest resolutions.

A minor in Value Studies requires 18 hours, including:

PHIL 1305	Philosophy and Critical Thinking	3
PHIL 4388	Problems in Philosophy (for the independent research project)	3
Select four of the following:		12
PHIL 3320	Ethics	
PHIL 3321	Contemporary Moral Problems	
PHIL 3322	Professional Ethics	
PHIL 3323	Environmental Ethics	
PHIL 3324	Meaning of Life	
PHIL 3326	Philosophy and Sport	
PHIL 3331	Philosophy of Law	
PHIL 3332	Social and Political Philosophy	
PHIL 3333	Feminist Theory	
PHIL 4303	Philosophy of Technology	
PHIL 4350	Philosophy of the Arts	
PHIL 4351	Philosophy of Education	
Total Hours		18

## Department of Political Science

Undergraduate Academic Center 355A

T: 512. 245.2143 F: 512. 245.7815

[www.polisci.txstate.edu](http://www.polisci.txstate.edu) (<http://www.polisci.txstate.edu>)

Political science is the study of government, the most important decision-making part of society, and of the social, economic, and other institutions and practices that influence this decision-making process. On the one hand, it is a discipline that can trace its roots to the ancient Greek political community, the polis; but it is also a modern social science, which uses techniques such as content analysis, public opinion surveys, and statistical analysis to create and evaluate generalizations about how government and people behave.

As a liberal arts discipline, the department is dedicated to developing analytical skills and promoting critical thinking. Students are encouraged to reflect not simply on their career goals, but also on what type of persons they want to become, and on their rights and duties as citizens. The department offers students the opportunity to earn up to six credit hours in an internship program in which students gain practical experience by working for various federal, state, local or non-profit community agencies.

Political science prepares students for careers in various fields, not only in government, law, and education but also in business, journalism, urban planning, and many fields on which public policies have a significant effect.

## Recognition of Student Scholarship

### The Annual Professor Henderson Award

The Department of Political Science annually presents the Professor Henderson Award to the graduating Political Science major with the highest overall GPA (the award may be for either a December or May graduate of the current academic year). The award has the purpose of recognizing and honoring a student of Political Science who has, as a

student at Texas State, displayed academic excellence and character in the tradition and values cherished and exhibited by Richard B. Henderson, Distinguished Professor Emeritus.

### The Howard M. "Prof" Greene Award

This award honors an academic mentor in politics to Lyndon B. Johnson and thousands of other Texas State alumni and goes to one or more graduating Political Science majors who have earned overall Texas State grade-point averages of 3.9 or above.

Interested students who believe they may be eligible for these awards should consult with the Department Chair.

## Bachelor of Arts (B.A.)

- Major in Political Science (p. 449)
- Major in Political Science (Teacher Certification in Social Studies, Grades 7-12: Geography Minor and History Third Field) (p. 451)
- Major in Political Science (Teacher Certification in Social Studies, Grades 7-12: History Minor and Geography Third Field) (p. 453)

## Bachelor of Public Administration (B.P.A.)

- Major in Public Administration (p. 454)

## Minors

- Political Science (p. 456)
- Public Administration (p. 456)
- Political Communication (p. 455)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Political Science (POSI)

### POSI 2310. Principles of American Government.

A survey of the principles of political science, of the American system of government, and of the origins and development of the constitutions of the United States and Texas. Satisfies the legislative requirements for teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070

**Grade Mode:** Standard Letter

**TCCN:** GOVT 2306

### POSI 2320. Functions of American Government.

This course is a study of functions performed in the American system of government, both national and state, within the framework of the U.S. and Texas Constitutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070

**Grade Mode:** Standard Letter

**TCCN:** GOVT 2305



**POSI 3300. Basic Political Ideas.**

Introduction to the fundamental ideas of the Western political tradition including conservatism, liberalism, socialism, democracy, and totalitarianism. This course (or 3301) is required of all Political Science majors and minors, and it serves as a co-requisite for other advanced courses in Political Science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3301. Basic Political Institutions.**

The study of political institutions emphasizing the fundamentals of political science research and analysis, the tools used in bibliographical research, and methods of locating and presenting data for comparing political institutions. This course is required of all public administration majors and is a co-requisite for other advanced political science courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3305. The American Founding.**

An examination of the origins, nature, and foundations of the American Constitutional system with special emphasis on the Federalist/Anti-federalist debates and the writing of the constitution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3306. Religion and American Public Life.**

An examination of the ways in which religious beliefs and groups have influenced the course of American democratic experience; and the on going debates in constitutional law and democratic theory regarding the proper role of religion in American public life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3307. Parties and Party Politics.**

The American political system, including its history and organization, suffrage, nominations and elections, campaigns, and the related areas of public opinion and pressure group activities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3308. Congress and the Legislative Process.**

The dynamics of lawmaking and legislative politics in the United States. The structure, party organization, rules of procedure, and actual operation of the Congress and of selected state legislatures (including Texas) are analyzed, compared, and evaluated. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3309. The American Presidency.**

A comprehensive examination of both the presidency and the men who have held it. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3310. Constitutional Law: Basic Structures and Principles.**

A case study approach to an analysis of fundamental principles of governmental structure with an emphasis on the office and powers of the President and inter-governmental relationships in the main body (Articles I through VII) of the U.S. Constitution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3311. Constitutional Law: Individual Liberties.**

An examination of that area of Constitutional interpretation commonly known as Civil Liberties or the relations between the individual and the government. (May be used to satisfy Group II requirements)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3314. State and Local Government.**

A study of the organization, functions, and powers of state, county, and municipal government in the United States with particular reference to patterns of such governments in Texas. (May be substituted for POSI 2310) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3316. Introduction to Public Administration.**

The organization and management of the machinery for executing public policies, with particular emphasis upon the Federal bureaucracy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3318. Public Personnel Administration.**

A study of public personnel systems in the United States with major concentrations on the national civil service system. Special emphasis is given to current research in the areas of leadership, informal organization, motivation, and small group theory. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3319. Metropolitan Politics.**

An examination of the political institutions and processes of urban and suburban America, including such topics as urban sprawl, reform movements, ethnic politics, and city-county consolidation. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3320. Comparative Public Administration.**

A survey of the field of Public Administration that will emphasize those aspects of administration that are common to all administrative systems. (May be used to satisfy Group IV requirements.) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3322. Introduction to International Studies.**

This "core seminar" identifies critical interdisciplinary questions that will be examined in all courses in the International Studies Program. Required of all majors and minors in International Studies. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3325. Economic Development in Latin America.**

This course examines the economic history of and current obstacles to economic development in Latin America. It explores the Import Substitution Industrialization era, the debt crisis of the 1980s, free market economics, and the nature and revival of economic populism  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 3328. Public Finance Administration.**

Focuses on planning, organization, and implementation of budgeting including fund accounting, auditing, and debt management in the public sector. Prerequisites: MATH 1315 or higher with a grade of C or better, POSI 3301 and POSI 3316 with a grade of C or better. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3331. American Political Thought.**

The development of American political ideas from the colonial period to the present. (MULT) (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3332. Ancient and Medieval Political Thought (Greeks to 1600).**

A study of the masters of classical and medieval political theory from Plato to Machiavelli. (MULT) (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3333. Modern Political Theory (1600-1900).**

The development of modern political ideas; the meaning and relationships of the significant ideologies of our time; democracy, capitalism, the welfare state, socialism, fascism, and totalitarian communism. (MULT) (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3334. Contemporary Political Theory.**

A study of selected theories, ideologies, and movements in 20th century political theory. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3335. Comparative Politics.**

This course is a comparative study between two or more political systems, their institutions, and processes, including the origin, development, geographical units, forms, sources of authority, powers, purposes, functions, and operations of government  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 3336. Civil-Military Relations in Comparative Perspective.**

This course is intended to serve as an intensive exploration of the important subject of civil-military relations. Students will critically examine the primary positive and normative theories of civil-military relations. They will then investigate the state of civil-military relations in the United States and around the globe  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 3337. Politics of Modern Southeast Asia.**

This course is a comparative analysis of the political and economic significance of Southeast Asia and will include an empirical and conceptual examination of the political dynamics of the region  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 3340. Urban Policy and Administration.**

The purpose of this course is to provide a critical introduction to the key aspects of urban administration and policy. Students will build an understanding of how urban administration practices and policies influence the form and function of American cities  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 3377. Analytical Techniques.**

Examines basic scientific methods, including problem definition, hypothesis testing, explanation and prediction, and theory construction. Statistical analysis is applied to problems in political science. Prerequisites: MATH 1315 or higher with a grade of "C" or better, POSI 3301 and POSI 3316 with a grade of C or better  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 4301. Politics in Film.**

This course will expose the students to films which explicitly address political issues such as racism in the United States, the conflict between public duty and private conscience, and politics and media manipulation, and the role of perception in all the actions people take. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**POSI 4302. Legal Theories and Research.**

This course examines the American Legal System at both the state and federal levels involving civil and criminal procedure. Emphasis is on the process of these systems and the framework within which disputes are resolved. Students will become familiar with legal research methods to better understand the composition of legal options  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 4303. Civil Law in American Society.**

This course considers the structure and functions of government together with the law regulating private social relations, i.e., contract law, property law, tort law, and the causal relations between legal policies and societal goals and regulations  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**POSI 4304. Issues in Law and Public Policy.**

This course examines contemporary legal issues by focusing on their relationship to public policy. Selected topics will vary, i.e., AIDS, abortion, affirmative action/reverse discrimination, capital punishment, environmental protection, euthanasia, and surrogate motherhood. In connection with these controversial issues we will address: (1) alternative views; (2) social consequences; and (3) political responses to and legal issues resulting from alternative positions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4311. The Supreme Court and the Judicial Process.**

An intensive examination of the judiciary, focusing upon the politics of judicial selection and the decision-making process of the judiciary as well as the position of the judiciary in the entire political process. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4313. Islamic Law and Politics.**

This course is a study of the law, origins, development, divisions, and politics of Islam. Special emphasis will be given to law, political thought, history, and the culture of the Middle East. Topics covered include Muslim law and political institutions; the Arab and Persian roles in Islam; the Islamic Community as a political system; major points of the Islamic faith and their political significance and the political and historical significance of Muslim mysticism. (This course may be used to satisfy Group I requirements.) (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4314. Revolution and Nationalism.**

This course examines the phenomena of modern revolution and nationalism focusing on different countries in various geographical areas such as the Middle East, Latin America, and others. This course is repeatable for credit twice with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4315. The Arab-Israeli Conflict.**

Origins and development of the Arab-Israeli conflict: Jewish and Palestinian nationalism; regional, international and religious dimensions; and the changing social and political character of Israel and the Palestinian community. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4320. Issues and Interest Groups: Power and Pressure in America.**

An examination of selected issues at the state and national level and the interest groups which attempt to influence governmental decisions about them. The goal of the course is to promote a better understanding of the process of government and an informed opinion on the question, "Is there a Public Interest?" Prerequisite: POSI 2310. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4322. Public Policy Formulation.**

Intensive analysis of theories and processes of both policy formation and policy enforcement in the American administrative system, emphasizing the regulatory function. Prerequisite: POSI 2310 and POSI 3301. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4326. Issues in World Politics.**

This course is designed to acquaint the student with major issues in world politics and major concepts in international relations and comparative politics. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4327. Theories of International Politics.**

This course focuses on theories and concepts in the study of international relations. Major theoretical works and illustrative case studies will be critically examined. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4328. The Holocaust.**

An undergraduate seminar on The Holocaust. Among the topics covered are: efforts to understand The Holocaust; the evolution of anti-Semitism in Germany; ordinary Germans and ordinary Poles and The Holocaust; and representing The Holocaust in fiction, film, and poetry. (may be used to satisfy group IV requirement.) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4330. Women in Politics.**

A study of the role of women in political life. The course will examine women's influence on politics as well as how various public policies affect women. Topics may include feminism, electoral politics, political representation, and the internal politics of women's groups. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4331. Minority Politics.**

This course examines and analyzes the political participation of American minorities (Blacks, Hispanics, women, and other minorities) in the American political system and the impact of various public policies on minority groups. The course will emphasize the following topics: electoral participation; public policy participation, representation and implementation; protest politics; and political behavior. Some reference will be to Texas and the Southwest. May be repeated once with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4335. Politics and Personality.**

An introduction to the relationship between political behavior and human motivation. Topics include psychological perspectives and political theory; personality and political orientation; the political personality, and the politically relevant insights into these areas offered by fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4336. Campaigns and Elections.**

An examination of the dynamics of American political campaigns and elections, including an analysis of federal and state elections as well as voting behavior and party and interest group influence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337A. Texas Politics.**

This course focuses on the history, culture, institutions, issues, and policies of the Texas political systems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337B. The Politics of the American Working Class.**

This course engages students in an intensely focused examination of the social, cultural, and political reasons why Americans vote at a lower rate than do citizens of most other Industrial Democracies. We will examine policy consequences of this phenomenon and consider whether or not policy change is warranted. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337C. Media and Public Opinion.**

This class will cover how the media influences public opinion and voting behavior. Specific topics include media functions in campaigns and elections, media bias, new media, and media effects on political attitudes and behaviors. This course uses lectures, discussions, with active participation, and group projects. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337D. The Politics of Dystopia.**

This course explores the idea of political utopia and the many ways in which it might be twisted into a darker, less-than-perfect society. Content will focus in particular on the relationship between fictional dystopias in novels and films, and political reality in 21st-century America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337E. Ethics in American Government.**

This course examines key ethical and cultural challenges in American government, including the exploration of values, ethical analysis, and democratic process. Several specific policies, including health care, environment, and national security will be analyzed. The course focuses on individual and institutional corruption and strategies for reform. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337F. The Politics of U.S. Economic Issues.**

This course will introduce the political economy issues which have dominated politics in the U.S. including the constitutional, partisan, and sectional aspects of such issues as: Bank of the United States, slavery, gold standard, the Great Depression, banking, income distribution, and the Affordable Care Act. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4338. Government and Politics of Latin America.**

A comparative analysis of political systems in Latin America, examining the impact of sociocultural and economic factors on political attitudes and behaviors. Special emphasis on Mexico, Cuba, and Brazil. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4340. Government and Politics of Europe.**

An in-depth analysis of the political systems of the states of Europe and the emerging European Union, with special emphasis on Great Britain, France, Italy, and Germany. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4341. Government and Politics of Russia.**

A comprehensive study of the domestic and foreign policy of the former Soviet Union, examined both historically and analytically. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4345. American Foreign Policy.**

This course focuses on "how foreign policy is made" or the decision-making process. The major institutions involved in the decision-making process as well as the ideological setting in which they function are examined. Among the topics studied are the foreign policy roles of Congress, Interest Groups, the State Department and the Secretary of State, the Military Establishment, the Intelligence Community, the Presidency, and Public Opinion. Specific "cases" or major foreign policy decisions will be examined illustrate the various roles of these institutions in the decision-making process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**POSI 4349A. Spanish Democracy in Comparative Context.**

An examination of the Politics of Democratic Consolidation in Southern Europe using Spanish Political Institutions and Behavior as a case study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349B. Model International Institutions Competition.**

This course is an applied introduction to diplomacy focusing on issues relevant to international institutions, in which students will engage in debate and role-playing. Students are responsible for costs incurred to attend mandatory workshops and model international competitions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**POSI 4349C. Liberty and Property: A Comparison of Australia and the United States.**

This course studies the history and politics of property rights in Australia and the United States. It will be taught simultaneously with a course offered at Macquarie University in Sydney, Australia. Students in both universities will read the same material and engage in discussion with Australian faculty and students via the Internet. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349D. Organization of American States.**

This course is an introduction to major issues of the OAS including its functions and limitations and the evolving relations among member-states. Students are responsible for travel costs and expenses incurred to attend mandatory parliamentary procedure workshops and model OAS competitions. (May be used to satisfy Group V requirements). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349E. Politics of Mexico.**

This course will introduce students to modern Mexican politics. We will explore the historical, economic, and social factors that have influenced the politics of Mexico, beginning with the revolution and continuing to the present. We will assess the strength of Mexico's political institutions, its party system, and its ability to maintain democracy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349F. Politics of Democratization in Developing Countries.**

A critical examination of the third wave of democratization in the developing world and the multiple challenges faced these neodemocracies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**POSI 4350. Government and Politics of Asia.**

A critical analysis of political development in the nations of Far East and South Asia, concentrating on China, Japan, and India. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4351. African Politics.**

A comprehensive examination of contemporary political events in Africa with special attention to Angola, South Africa, and Nigeria. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4354. The Politics of Extremism.**

This course is an undergraduate seminar on international terrorism and extremist politics in America. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4356. International Law.**

Examines the nature, sources, and development of international law as both a legal and political process. The law of treaties, acquisition of personality, territorial jurisdiction, the law of the sea, land and air, diplomatic immunities, nationality, state responsibility, human rights, and the law of war will be emphasized. Students will research contemporary international problems and participate in a Moot International Court of Justice (ICJ) proceeding. (May be used to satisfy Group III requirements.) (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4357. International Organization.**

This course will examine the historical roots of international organizations, the development of the League of Nations, and the evolution of the United Nations System. The nature, process, and function of contemporary international organization will be analyzed. The role of non-governmental organizations, transnational organizations, and multi-national corporations will be assessed. The course will include a mix of lecture, discussion, and model sessions. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4358. United States-Latin American Relations.**

Examines policies, problems, and attitudes, together with detailed analysis of U.S. relations with selected countries. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4359. Politics of International Economic Relations.**

This course examines the institutional structure of interstate economic relations, trade and monetary regimes, foreign investment, foreign aid, and development policies of governments. Prerequisite: POSI 3322. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter



**POSI 4361. Administrative Law.**

Course stresses the legal principles and practical doctrines involved in the work of administrative tribunals vested with quasi-legislative or quasi-judicial powers or both. Primary focus on development, practice, and procedures of federal administrative agencies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4362. Government and American Business.**

An overview of the relationship of American business to public policy as a whole. Focus is on several factors affecting the relationship between the public and private sectors including political ideology and culture, pluralism, political party development, political business cycles, monetary policy, and the domestic economy and political accountability. May be repeated once with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4367. International Conflict and Security.**

Examines historical and spatial patterns of conflict (including war, terrorism, and economic coercion) from Realist, Idealist, and Marxian schools of thought. The course will also examine strategies for conflict prevention and resolution such as deterrence, armscontrol, collective security, and "building democracy." (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4379. Independent Study.**

Independent reading and/or research on various problem areas of political science. Instructor will approve specific problem area, bibliography, and study paper outline. May be repeated once with different subject matter and instructor. No more than six semester hours credit in meeting degree requirements. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4380. Internship in Government.**

The student will participate in the ongoing work of a selected governmental unit. A research paper dealing with the internship experience written under the direction of a faculty member will be required. This course may be repeated one time for additional internship credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4381. Internship in Public Administration.**

Students in the Bachelor of Public Administration (BPA) degree program will participate in the ongoing work of a public or non-profit agency. A research paper dealing with the internship experience written under the direction of a faculty member will be required. May be repeated once

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4397. Research in Public Administration.**

This course is designed to assure familiarity with the basic concepts and approaches used in the study of public administration. Students will learn to identify, locate, and employ resources to assist in understanding public administration at all governmental levels. Course may be taken as a substitute for POSI 4381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4398. Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics.**

This course is designed to assure familiarity with the basic concepts and approaches used in the study of politics. Students will learn to identify, locate, and employ resources to assist in understanding politics at local, state, national, and international levels. Model Congress or U.N., visits to local government offices and councils, moot court, critiques of political propaganda films, and simulations in international relations are some of the applied methods of studying politics that students will learn. This course is required of all B.A. students seeking a teaching certificate in Political Science; it may be taken as a substitute for POSI 4399 for Political Science non teacher certification majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4399. Senior Seminar in Political Science.**

Seminar devoted to intensive reading, research, writing, and discussion focusing on different sub-fields in the discipline taught by appropriate faculty. Students in consultation with faculty in their area of interest should select a particular sub-field seminar in accordance with their needs and professional objectives. Required of all majors and must be taken in the student's junior or senior year. Other interested students may take the course with the consent of the chair and instructor. May be repeated with different instructor and approval of chair. Prerequisites for the Senior Seminar are all of the core courses in Political Science or approval of the Department Chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4680. Internship in Government.**

The student will participate full time (40 hours per week) in the ongoing work of selected governmental units. A research paper dealing with the internship experience written under direction of a faculty member will be required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Political Science

### Minimum required: 120 semester hours General Requirements

1. Majors must take a minimum of 30 hours in political science, including:

POSI 2310	Principles of American Government	6
& POSI 2320	and Functions of American Government	
POSI 3300	Basic Political Ideas <sup>1</sup>	3
or POSI 3301	Basic Political Institutions	

One advanced course from four of the five groups:	12
I. Political Theory and Methodology	
II. American Government	
III. Public Law and Public Administration	
IV. Comparative Government	
V. International Relations	
Advanced POSI electives	6
POSI 4399 Senior Seminar in Political Science	3
or POSI 4398 Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics	
<b>Total Hours</b>	<b>30</b>

<sup>1</sup> POSI 3300 or POSI 3301 serve as corequisites for all advanced courses in political science.

- Majors must complete an additional science course known as the B.A. Science Requirement in addition to the Life and Physical Sciences component, a minor from the approved list of minors, and general education core curriculum and B.A. requirements.
- Majors must complete at least 120 total hours of which 36 hours must be advanced (24 advanced completed at Texas State) and 9 hours must be writing intensive.

Freshman			
First Semester Hours		Second Semester Hours	
ENG 1310	3	HIST 1310	3
US 1100	1	POSI 2320	3
POSI 2310	3	Modern Language 1420	4
MATH 1315 (or higher)	3	PHIL 1305 or 1320	3
Modern Language 1410	4	ENG 1320	3
<b>14</b>		<b>16</b>	

Sophomore			
First Semester Hours		Second Semester Hours	
COMM 1310	3	POSI Advanced Group Elective	3
Select one of the following (English Literature):	3	Modern Language 2320 <sup>1</sup>	3
ENG 2310		Social and Behavioral Sciences	3
ENG 2320		Life and Physical Sciences	3
ENG 2330		Minor	3
ENG 2340			
ENG 2359			
ENG 2360			
Modern Language 2310 <sup>1</sup>	3		
HIST 1320	3		
POSI 3300 or 3301	3		
<b>15</b>		<b>15</b>	

Junior			
First Semester Hours		Second Semester Hours	
Select one of the following:	3	POSI Advanced Group Electives	6
ART 2313		B.A. Science	3
DAN 2313		HIST 2312 or 2320 <sup>2</sup>	3
MU 2313		Minor	3

TH 2313	
Life and Physical Sciences	3
HIST 2310 or 2311 <sup>2</sup>	3
POSI Advanced Group Elective	3
Select one of the following English Literature courses:	3
ENG 2310	
ENG 2320	
ENG 2330	
ENG 2340	
ENG 2359	
ENG 2360	
<b>15</b>	<b>15</b>

Senior			
First Semester Hours		Second Semester Hours	
POSI Advanced Elective	3	Electives as needed	6
Minor	9	POSI Advanced Elective	3
Elective as needed	3	Minor	3
		POSI 4398 or 4399 <sup>3</sup>	3
<b>15</b>		<b>15</b>	

Total Hours: 120

<sup>1</sup> Majors are required to complete 6 hours of a Modern Language (2310, 2320). Most students will complete 1410 and 1420 as prerequisites before attempting 2310.

<sup>2</sup> Majors are required to complete 6 additional hours of history in Western or World Civilization (HIST 2310 or HIST 2311 and HIST 2312 or HIST 2320).

<sup>3</sup> The senior seminar courses (POSI 4398 or POSI 4399) have a prerequisite of at least 21 hours of Political Science.

## Political Science Advanced Group Electives

### Group I - Political Theory and Methodology

Code	Title	Hours
POSI 3331	American Political Thought	3
POSI 3332	Ancient and Medieval Political Thought (Greeks to 1600)	3
POSI 3333	Modern Political Theory (1600-1900)	3
POSI 3334	Contemporary Political Theory	3
POSI 3377	Analytical Techniques	3
POSI 4328	The Holocaust	3
POSI 4335	Politics and Personality	3

### Group II - American Government

Code	Title	Hours
POSI 3305	The American Founding	3
POSI 3306	Religion and American Public Life	3
POSI 3307	Parties and Party Politics	3
POSI 3308	Congress and the Legislative Process	3
POSI 3309	The American Presidency	3
POSI 3314	State and Local Government	3
POSI 3319	Metropolitan Politics	3
POSI 3340	Urban Policy and Administration	3

POSI 4301	Politics in Film	3
POSI 4320	Issues and Interest Groups: Power and Pressure in America	3
POSI 4330	Women in Politics	3
POSI 4331	Minority Politics	3
POSI 4336	Campaigns and Elections	3
POSI 4337A	Texas Politics	3
POSI 4337B	The Politics of the American Working Class	3
POSI 4337C	Media and Public Opinion	3
POSI 4345	American Foreign Policy	3
POSI 4362	Government and American Business	3

**Group III - Public Law and Public Administration**

Code	Title	Hours
POSI 3310	Constitutional Law: Basic Structures and Principles	3
POSI 3311	Constitutional Law: Individual Liberties	3
POSI 3316	Introduction to Public Administration	3
POSI 3318	Public Personnel Administration	3
POSI 3320	Comparative Public Administration	3
POSI 3328	Public Finance Administration	3
POSI 4302	Legal Theories and Research	3
POSI 4303	Civil Law in American Society	3
POSI 4304	Issues in Law and Public Policy	3
POSI 4311	The Supreme Court and the Judicial Process	3
POSI 4322	Public Policy Formulation	3
POSI 4361	Administrative Law	3

**Group IV - Comparative Government**

Code	Title	Hours
POSI 3325	Economic Development in Latin America	3
POSI 3335	Comparative Politics	3
POSI 3337	Politics of Modern Southeast Asia	3
POSI 4313	Islamic Law and Politics	3
POSI 4314	Revolution and Nationalism	3
POSI 4327	Theories of International Politics	3
POSI 4338	Government and Politics of Latin America	3
POSI 4340	Government and Politics of Europe	3
POSI 4341	Government and Politics of Russia	3
POSI 4349A	Spanish Democracy in Comparative Context	3
POSI 4349C	Liberty and Property: A Comparison of Australia and the United States	3
POSI 4349D	Organization of American States	3
POSI 4349E	Politics of Mexico	3
POSI 4349F	Politics of Democratization in Developing Countries	3
POSI 4350	Government and Politics of Asia	3
POSI 4351	African Politics	3
POSI 4354	The Politics of Extremism	3

**Group V - International Relations**

Code	Title	Hours
POSI 3322	Introduction to International Studies	3
POSI 3336	Civil-Military Relations in Comparative Perspective	3

POSI 4315	The Arab-Israeli Conflict	3
POSI 4326	Issues in World Politics	3
POSI 4327	Theories of International Politics	3
POSI 4356	International Law	3
POSI 4357	International Organization	3
POSI 4358	United States-Latin American Relations	3
POSI 4359	Politics of International Economic Relations	3
POSI 4367	International Conflict and Security	3

## Bachelor of Arts (B.A.) Major in Political Science (Teacher Certification in Social Studies, Grades 7-12: Geography Minor and History Third Field)

**Minimum required: 130 semester hours**

**General Requirements**

1. This option is designed to prepare students for secondary teacher certification in the social studies disciplines (History, Geography, Government, and Economics). Upon completion of the social studies curriculum and passage of the social studies TExES test, students will receive certification in social studies and eligibility to teach in the disciplines.
2. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.
3. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
4. The Social Studies Teacher Certification requires completion of the following: Political Science major, Geography minor, History third field.

**Political Science major**

POSI 3300	Basic Political Ideas	3
or POSI 3301	Basic Political Institutions	
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
One advanced course from four of the five groups		12
POSI 4398	Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics	3
POSI advanced electives		3
HIST 4300	Social Studies Resources and Practices	3
<b>Total Hours</b>		<b>30</b>

**Geography minor**

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 3303	Economic Geography	3
GEO 3309	United States and Canada	3
GEO 3329	Geography of Texas	3
<b>Total Hours</b>		<b>16</b>

**History third field**

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
HIST 3372	Texas History: A Survey (U.S. History)	3
<b>Total Hours</b>		<b>15</b>

5. In addition to the major, minor, and third field requirements, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
<b>Total Hours</b>		<b>21</b>

**Freshman**

First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2320	3
MATH 1315 (or higher, excluding MATH 1316)	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320	3
<b>Total Hours</b>		<b>16</b>	

**Sophomore**

First Semester	Hours	Second Semester	Hours
COMM 1310	3	POSI Advanced Group Elective	3
Select one of the following (English Literature):	3	Modern Language 2320	3
ENG 2310		GEO 1309 or 1310	3
ENG 2320		Life and Physical Sciences	3
ENG 2330		HIST 2311	3

ENG 2340			
ENG 2359			
ENG 2360			
Modern Language 2310	3		
HIST 1320		3	
POSI 3300 or 3301		3	
<b>Total Hours</b>		<b>15</b>	

**Junior**

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	POSI Advanced Group Electives	6
ART 2313		GEO 2410	4
DAN 2313		HIST 3372	3
MU 2313		GEO 3303	3
TH 2313			
Life and Physical Sciences	3		
HIST 2312		3	
POSI Advanced Group Elective		3	
Select one of the following English Literature courses:	3		
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
<b>Total Hours</b>		<b>16</b>	

**Senior**

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
CI 4332	3	CI 3325	3	EDST 4681	6
GEO 3309	3	POSI 4398	3		
POSI Advanced Group Elective	3	HIST 4300	3		
GEO 3329	3	Education Block:	9		
ECO 2301 or 2314 <sup>1</sup>	3	CI 4370			
		CI 4343			

RDG 3323

15	18	6
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Total Hours: 130

<sup>1</sup> Students must take ECO 2301 or ECO 2314 as the social science component for the core curriculum, as Economics is one of the subjects tested on the Social Studies TExES exam.

# Bachelor of Arts (B.A.) Major in Political Science (Teacher Certification in Social Studies, Grades 7-12: History Minor and Geography Third Field)

## Minimum required: 130 semester hours General Requirements

1. This option is designed to prepare students for secondary teacher certification in the social studies disciplines (History, Geography, Government, and Economics). Upon completion of the social studies curriculum and passage of the social studies TExES test, students will receive certification in social studies and eligibility to teach in the disciplines.
2. Majors must satisfy general education core curriculum, teacher certification, and B.A. requirements.
3. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
4. The Social Studies Teacher Certification requires completion of the following: Political Science major, History minor, Geography third field.

### Political Science major

POSI 3300	Basic Political Ideas	3
or POSI 3301	Basic Political Institutions	
POSI 2310	Principles of American Government	3
POSI 2320	Functions of American Government	3
One advanced course from four of the five groups		12
POSI 4398	Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics	3
POSI advanced electives		3
HIST 4300	Social Studies Resources and Practices	3
Total Hours		30

### History minor

HIST 1310	History of the United States to 1877	3
HIST 1320	History of the United States, 1877 to Date	3
HIST 2311	History of World Civilization to the 17th Century	3
HIST 2312	History of World Civilization from the 17th Century	3
Advanced Group A (World) course		3
Advanced Group B (European) course		3
HIST 3372	Texas History: A Survey (Group C, U.S. History)	3
Total Hours		21

### Geography third field

GEO 1309	Introduction to Cultural Geography	3
or GEO 1310	World Geography	
GEO 2410	Introduction to Physical Geography	4
GEO 3303	Economic Geography	3
or GEO 3309	United States and Canada	
Total Hours		10

5. In addition to the major, minor, and third field requirements, students must also complete 21 hours of professional sequence courses under the College of Education:

CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 3325	Adolescent Growth and Development	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
Total Hours		21

### Freshman

First Semester	Hours	Second Semester	Hours
ENG 1310	3	ENG 1320	3
US 1100	1	HIST 1310	3
POSI 2310	3	POSI 2320	3
MATH 1315 (or higher, excluding MATH 1316)	3	Modern Language 1420	4
Modern Language 1410	4	PHIL 1305 or 1320	3
14		16	

### Sophomore

First Semester	Hours	Second Semester	Hours
COMM 1310	3	POSI Advanced Group Elective	3
Select one of the following (English Literature):	3	Modern Language 2320	3
ENG 2310		GEO 1309 or 1310	3
ENG 2320		Life and Physical Sciences	3
ENG 2330		HIST 2311	3
ENG 2340			



ENG 2359	
ENG 2360	
Modern Language 2310	3
HIST 1320	3
POSI 3300 or 3301	3
<hr/>	
	15
	15

**Junior**

First Semester	Hours	Second Semester	Hours
Select one of the following:	3	POSI Advanced Group Electives	6
ART 2313		GEO 2410	4
DAN 2313		HIST Advanced Group A	3
MU 2313		GEO 3303 or 3309	3
TH 2313			
Life and Physical Sciences	3		
HIST 2312	3		
POSI Advanced Group Elective	3		
Select one of the following English Literature:	3		
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2350			
ENG 2360			
<hr/>			
	15		16

**Senior**

First Semester	Hours	Second Semester	Hours	Third Semester	Hours
CI 4332	3	CI 3325	3	EDST 4681	6
HIST Advanced Group B	3	POSI 4398	3		
POSI Advanced Elective	3	HIST 4300	3		
HIST 3372	3	Education Block:			9

ECO 2301 or 2314 <sup>1</sup>	3	CI 4370	
		CI 4343	
		RDG 3323	
<hr/>			
	15	18	6

Total Hours: 130

<sup>1</sup> Students must take ECO 2301 or ECO 2314 as the Social and Behavioral Sciences component for the general education core curriculum, as Economics is one of the subjects tested on the Social Studies TExES exam.

# Bachelor of Public Administration (B.P.A.) Major in Public Administration

**Minimum required: 120 semester hours**

## General Requirements

1. Major requires 33 semester hours in political science coursework.
2. Majors are strongly encouraged, but not required, to choose their free electives from the following career support areas:

**Local Government**

POSI 3319	Metropolitan Politics	3
GEO 3310	Urban Geography	3
GEO 3320	Community and Regional Planning	3

**International**

POSI 4345	American Foreign Policy	3
POSI 4356	International Law	3
POSI 4357	International Organization	3
ECO 3317	International Economics	3

**Social Services**

SOCI 3328	Complex Organizations	3
SOWK 2375	Social Services in the Community	3
SOWK 4310	Diversity and Social Justice in Social Work	3
SOWK 4355	Policy Practice	3

**Legal Services**

POSI 3310	Constitutional Law: Basic Structures and Principles	3
POSI 3311	Constitutional Law: Individual Liberties	3
POSI 4304	Issues in Law and Public Policy	3
CJ 2360	Fundamentals of Criminal Law	3

**Health Services**

HA 3308	Healthcare Organization	3
HIM 3380	Quality Improvement Regulations & Procedures for HIM	3

3. Enrollment in the required internship requires completion of 24 hours of Political Science and the following minimum GPA's: a Texas State GPA of 2.25 and a major GPA of 2.25.
4. There is no foreign language requirement for those who have completed two years of the same foreign language in high school.
5. Majors must satisfy general education core curriculum, additional B.P.A. requirements, and a minor from the approved list of minors.

Freshman	
First Semester Hours	Second Semester Hours
ENG 1310	3 ENG 1320
US 1100	1 HIST 1310
POSI 2310	3 POSI 2320
MATH 1315 (or higher, excluding MATH 1316)	3 Modern Language 1420
Modern Language 1410	4 PHIL 1305 or 1320
14	16

Sophomore	
First Semester Hours	Second Semester Hours
COMM 1310	3 POSI 3316
Select one of the following English Literature courses:	3 ENG 3303 or 3304
ENG 2310	Social and Behavioral Sciences
ENG 2320	Life and Physical Sciences
ENG 2330	Elective
ENG 2340	
ENG 2359	
ENG 2360	
Elective	3
HIST 1320	3
POSI 3301	3
15	15

Junior	
First Semester Hours	Second Semester Hours
Select one of the following:	3 POSI 3328
ART 2313	POSI 3377
DAN 2313	Select one of the following:
MU 2313	SOCI 3324
TH 2313	SOCI 3328
Life and Physical Sciences	3 SOCI 3353
HIST 2310 or 2311	3 SOCI 3365
POSI 3318	3 HIST 2312 or 2320
Elective	3 Minor
15	15

Senior	
First Semester Hours	Second Semester Hours
Minor	6 Select one of the following:
POSI 3314 or 3319	3 GEO 3310
Select one of the following:	3 GEO 3320
POSI 3320	GEO 3340
POSI 4304	Minor
POSI 4361	POSI 4381 or 4397
POSI 4362	Electives
POSI 4322	3
15	15

Total Hours: 120

## Minor in Political Communication

**This minor is administered by the Department of Communication Studies; please contact the Department of Communication Studies for additional information.**

A minor in Political Communication addresses a variety of theories, principles, and skills related to the political communication process. The minor is designed for students interested in law, politics, public administration, public policy, or other professions related to issues and ideas in a political communication context.

A minor in Political Communication requires 24 hours, which includes 12 hours from the Department of Communication Studies and 12 hours from the selected courses from the Department of Political Science.

Code	Title	Hours
<b>Required course</b>		
COMM 4345	Political Communication	3
<b>Department of Communication Studies courses</b>		
Select nine hours from the following:		9
COMM 3345	Argumentation and Debate	
COMM 2338	Public Speaking	
COMM 3302	Rhetorical Research Methods	
COMM 4307	Media Criticism	
COMM 4321	American Speeches	
COMM 4322	Rhetoric of Protest Movements	
COMM 4324	Organizational Rhetoric	
COMM 4331	Persuasion	
COMM 4338	Advanced Public Speaking	
COMM 4390	Communication Internship	
<b>Department of Political Science courses</b>		
Select three hours from the following:		3
POSI 3331	American Political Thought	
POSI 3332	Ancient and Medieval Political Thought (Greeks to 1600)	
POSI 3333	Modern Political Theory (1600-1900)	
POSI 3334	Contemporary Political Theory	
Select three hours from the following:		3
POSI 3305	The American Founding	
POSI 3306	Religion and American Public Life	
POSI 3307	Parties and Party Politics	
POSI 3310	Constitutional Law: Basic Structures and Principles	
POSI 3311	Constitutional Law: Individual Liberties	
POSI 3314	State and Local Government	
POSI 4301	Politics in Film	
POSI 4302	Legal Theories and Research	
POSI 4322	Public Policy Formulation	
POSI 4331	Minority Politics	
POSI 4336	Campaigns and Elections	
POSI 4345	American Foreign Policy	

Select three hours from the following:	3
POSI 3308 Congress and the Legislative Process	
POSI 3309 The American Presidency	
POSI 4311 The Supreme Court and the Judicial Process	
Select three hours from the following:	3
POSI 4313 Islamic Law and Politics	
POSI 4314 Revolution and Nationalism	
POSI 4315 The Arab-Israeli Conflict	
POSI 4326 Issues in World Politics	
POSI 4327 Theories of International Politics	
POSI 4338 Government and Politics of Latin America	
POSI 4340 Government and Politics of Europe	
POSI 4341 Government and Politics of Russia	
POSI 4350 Government and Politics of Asia	
POSI 4351 African Politics	
POSI 4357 International Organization	
POSI 4358 United States-Latin American Relations	
POSI 4359 Politics of International Economic Relations	
POSI 4340 Government and Politics of Europe	
Total Hours	24

If a student elects to minor in either Communication Studies or Political Science, no COMM or POSI course may count both for a major and a minor.

## Minor in Political Science

A minor in Political Science requires 24 hours, including:

POSI 3300 Basic Political Ideas	3
or POSI 3301 Basic Political Institutions	
POSI 2310 Principles of American Government	3
POSI 2320 Functions of American Government	3
At least one course from 4 of the 5 groups	12
POSI advanced elective course	3
Total Hours	24

## Minor in Public Administration

A minor in Public Administration requires 24 hours, including:

POSI 2310 Principles of American Government	3
POSI 2320 Functions of American Government	3
POSI 3316 Introduction to Public Administration	3
POSI 3318 Public Personnel Administration	3
POSI 3328 Public Finance Administration	3
POSI 3377 Analytical Techniques	3
POSI 4322 Public Policy Formulation	3
POSI 4361 Administrative Law	3
Total Hours	24

## Department of Psychology

Undergraduate Academic Center Room 253  
T: 512.245.2526 F: 512.245.3153

[www.psych.txstate.edu](http://www.psych.txstate.edu) (<http://www.psych.txstate.edu>)

Psychology is the science that studies the behavior of individual people, animals, and organizations. To psychologists, behavior means not only actions, but also thoughts and feelings. Beyond its introductory course, the department offers courses in biological, developmental, social, and learned bases of behavior, as well as statistics and research methodology. Psychology majors take courses in all of these areas. Later they may participate in advanced theory, individual research, and internship classes to prepare for graduate programs in psychology.

Employment as a psychologist in clinical or industrial psychology requires a graduate degree beyond the bachelor's level. Many psychology majors, however, plan to enter jobs in business, government, health, and education immediately, with a B.A. or B.S. major in Psychology. For more information planning courses for a suitable program, the "Guide for Psychology Majors" is available at <http://www.psych.txstate.edu>.

## Course Prerequisite Sequence

The Psychology Department strictly enforces all course prerequisites. Adherence to the following course sequence is necessary for completion of the B.A. and B.S. degrees. This sequence requires four separate semesters (or summer terms), because course prerequisites may not be taken concurrently.

PSY 1300 Introduction to Psychology <sup>1</sup>	3
MATH 1312 College Statistics and Algebra (or higher except MATH 1316) <sup>1</sup>	3
PSY 2301 Introduction to Statistics <sup>1</sup>	3
PSY 2101 Introduction to Statistics Laboratory <sup>1</sup>	1
PSY 3402 Experimental and Research Methods <sup>1</sup>	4
One course from Group C	
PSY 4391 History and Theory	3

<sup>1</sup> Or its equivalent, with a grade of "C" or higher.

## Bachelor of Arts (B.A.)

- Major in Psychology (p. 460)

## Bachelor of Science (B.S.)

- Major in Psychology (p. 461)

## Minors

- Forensic Psychology (p. 462)
- Psychology
- Sport Psychology (p. 463)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Psychology (PSY)

### PSY 1300. Introduction to Psychology.

A survey of the major principles derived from research on human and animal behavior. Topics studied include learning, thinking, motivation, emotion, personality, the senses, perception, and the form and functions of the nervous system. PSY 1300 is a prerequisite for all other psychology courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2301

### PSY 2100. Professional Seminar.

This course examines the characteristics of Psychology as a discipline and profession. Coverage includes current trends in Psychology and its subfields, degree options in Psychology and its subfields as they relate to professional and/or career issues, and how to be an intelligent consumer of discipline-specific data and information

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### PSY 2101. Introduction to Statistics Laboratory.

This statistics laboratory course provides an introduction to descriptive and inferential statistics used in psychological research with an emphasis on data analysis techniques through the use of computer applications (ex., SPSS, R, etc.). Students should either be concurrently enrolled in PSY 2301 or have received credit with a "C" or better.

Prerequisite: PSY 1300 with a grade of "C" or better

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 2301. Introduction to Statistics.

(PSYC 2301) The course provides an introduction to statistical methods in behavioral sciences with special emphasis on application to psychological research. The topics covered include descriptive statistics, principles of statistical inference and common hypothesis testing techniques such as z-test, t-tests, analysis of variance, correlation and regression, and selected non-parametric tests. Prerequisites: Grades of "C" or better in PSY 1300 and MATH 1312 or higher (excluding MATH 1316)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2317

### PSY 2311. Psychology of Human Sexuality.

A psychological and physiological examination of the human sexual experience from conception through old age. Current research findings serve as a basis for study. Major consideration is given to the human sexual system, the sexual act, sexual attitudes and behavior, and sexual complications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2306

### PSY 3300. Lifespan Development.

Survey of the psychology of human development from the pre-natal period through adulthood. Emphasis placed on cognitive, motivational, and physiological processes of development in childhood and adolescence. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 3312. Adolescent Psychology.

A developmental psychology course designed to examine the complex characteristics of human cognitive and emotional life during the period of adolescence. Emphasis is directed toward the basis of behavior, interpersonal relationships, development, growth, and motivation. Prerequisite: PSY 1300 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 3313. Psychology of Adulthood and Aging.

The development of individuals in the post-adolescent period, particularly after middle age. Topics studied include social, psychological, and physiological changes and problems associated with the aging process. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 3314. Psychology of Consciousness.

This course is an introduction to the study of consciousness from the perspective of psychology, neuroscience, and the natural sciences. Topics reviewed included philosophical foundations, cognitive and neuroscientific approaches, the physical correlates of consciousness, introspection, sleep and dreaming and altered states of consciousness. Prerequisite: PSY 1300.(WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### PSY 3315. Abnormal Psychology.

An introduction to the study of abnormality: (1) issues in defining and evaluating it, (2) examples, (3) theories and research attempting to categorize, describe, and explain it, and (4) approaches used to prevent or change it when it is deemed a problem by the individual and/or society. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 3316. Personality Psychology.

A comprehensive introduction to research, theory, and application in the field of personality. Individual differences and situation influences are examined concerning authoritarianism, achievement motivation, anxiety, intelligence, self-concept, interpersonal attraction, aggression, sexuality, and altruism. An integrative model is suggested for describing and predicting human behavior. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PSY 3321. Sensation and Perception.

An introduction to the processes of perception. Topics will include perceptual measurement, the physiological bases of perception, basic visual processes, and basic haptic, olfactory, and gustatory processes. Prerequisite: PSY 3402 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3322. Brain and Behavior.**

This course covers research findings and theoretical concepts concerned with the physiological, anatomical, and pharmacological bases of behavior. Topics include sensory systems, the physiological mechanisms of motivation, and the physiological correlates of associative processes such as learning. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3323. Evolution and Behavior.**

The course provides a contemporary understanding of human behaviors, emotions, and cognitions through an examination of Darwin's theories of natural selection, sexual selection, and mental evolution. Relevant interdisciplinary perspectives from philosophy, history, anthropology, archaeology, biology, ethology, and genetics are incorporated.

Prerequisites: PSY 1300, PSY 3300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3325. Psychology of Persuasion.**

This course uses a socio-psychological perspective to understand the dynamics of persuasion and propaganda. It applies selected theories and research on social influence, persuasion and attitude change to such areas as political and educational campaigns, product advertising, mass media and public opinion. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3331. Social Psychology.**

The study of how people influence each other. The course covers such topics as conformity, inter-personal attraction, prejudice, and aggression. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3332. Psychology of Women.**

The special problems and demands made on the woman within modern western culture. Topics studied include status, roles, values, opportunities, expectations, stress, and self-realization of the modern woman. Prerequisite: PSY 1300. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3333. Industrial Psychology.**

The study of applying psychological knowledge and techniques to the modern industrial environment. Topics studied include employee needs, attitudes, selection, testing, boredom, motivation, anxiety, and job satisfaction. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3334. Psychology of Human Diversity.**

Explanations about how the environment, genetics and culture shape human differences, and how these differences are linked to world progress and understanding are addressed. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3335. Forensic Psychology.**

Examines the relationships between psychology and the processes of the American courtroom. Sample issues to be addressed include; (a) What psychological theories are used to explain jury decisionmaking? (b) How accurate is the memory of eyewitnesses? (c) How do characteristics of defendants influence juries? Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3336. Sports Psychology.**

This course examines the relationships, psychological concepts, and individual's thoughts regarding sports, health and exercise. Sample topics include (1) current theoretical perspectives of personality factors at sports and exercise, (2) why people engage in sports, (3) exercise adherence, (4) mental skills, and (5) the psychological effects of sports and exercise. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3337. Psychology of Prejudice, Discrimination, and Hate.**

This course will explore psychological theories and factors that underlie prejudice, discrimination, and hate. Although the course will focus primarily on these issues as they have developed and influence realities in the United States, global issues will also be explored. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3338. Psychology & Law: Protecting the Vulnerable.**

This course examines clinical, legal and psychosocial conditions of adults who, due to mental illness, developmental impairments, brain injuries or aging, are declared "incapacitated" and have court-appointed guardians. Students will serve as the probate court representatives who inspect living conditions and services for individuals under the court-ordered guardianships. Prerequisites: PSY 1300 and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3341. Cognitive Processes.**

This course covers the acquisition and use of knowledge, contemporary research on perception, pattern recognition, memory, thinking, problem solving, and language comprehension. Prerequisite: PSY 3402 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3350. Cognitive Behavioral Therapies.**

The course provides theory, research, and application of psychological principles that affect humans in education, business, and personal life. Emphasis is placed on effective use of reinforcement, classroom management, self-control, relaxation, and assertiveness. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**PSY 3352. Group Processes.**

A study of how the individual relates to his group membership. Students will analyze the development and functioning of their own groups, with attention to such issues as problems faced by group members in the early phases of a group's existence, leadership roles, group pressure, and trust. Prerequisite: PSY 1300 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3353. Computer Applications in the Social and Behavioral Sciences and Education.**

The principles of data analysis and interpretation using SPSS. Topics studied include data entry and management, statistical concepts, hypothesis testing and the proper interpretation of SPSS output.

Prerequisite: PSY 3301 and PSY 3302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3361. Health Psychology.**

Surveys contemporary theory and research on body/mind interaction in physical and mental health. Emphasis on personality, psychosocial, and stress factors in physical health. Other topics include the effects of physical health on psychological well being, pain management, longevity and aging, and coping with illness and dying. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3402. Experimental and Research Methods.**

This course introduces students to basic instruction in experimental design, data collection, and technical report writing in Psychology. By examining applications of various methodologies, this course provides information on the steps involved in crafting and executing empirical research projects as well as instruction on procedures and software. Prerequisite: PSY 2301 and PSY 2101 with grades of C or better. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4318. Psychological Tests and Measurements.**

The course provides an introduction to basic principles, research, and theories on testing and measurement of psychological constructs. It includes validity, reliability, item analysis, administration, scoring, and interpretation of existing tests and measures, and construction of new measures including surveys and other psychological instruments. Prerequisites: PSY 2101 and PSY 2301 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 4342. Learning and Memory.**

A study of memory and learning in humans and animals. Attention is given to comparative cognition, cognitive and neuropsychological aspects of memory, and memory deficits. Prerequisite: PSY 3402 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4350. Reality Therapy/Choice Theory.**

This course focuses on Glasser's concepts of Choice Theory and Reality Therapy. This course explores how the "total behaviors" and choices we make impact our lives, the kinds of relationships we want to have with others, health and quality of the life. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4352. Introduction to Clinical Psychology.**

Overview of clinical psychology. Emphasis on current theories and methods of individual psychotherapy. Class discussions of readings, films, audiotapes, and live examples illustrating approaches. Experiential learning via class exercises in pairs and small groups and by role-playing both therapist and client in a series of helping sessions. Practical focus on developing relationship skills and job skills. Prerequisite: PSY 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4390B. Emotion and Human Behavior.**

This course will provide an advanced understanding of the multifaceted phenomenon of emotion and its effect on human behavior. Students will be introduced to the philosophical and theoretical underpinnings of emotion, the various individual emotions (e.g. fear, anger, happiness) and will learn how emotion can affect physical and psychological health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390C. Interpersonal Relationships.**

This course will provide students with an overview of theory and research in the area of interpersonal relationships. The goals of relationships as well as the different forms that relationships may take will be discussed.

A major emphasis will be placed on applying ideas from class to students' everyday lives. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390M. Psychology and Opera.**

This course will explore the ways in which psychology and opera may, together, enrich our understanding of the human condition and will deal with the scientific attempts to establish causes of human behavior.

This course will show the relationship of the intellectual enterprise-psychology-with a great art form-opera

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390N. Psychopharmacology.**

This course reviews psychopharmacology topics including: neuronal and chemical mechanisms underlying drug action; environmental factors modulating the impact of drugs on emotion, cognition, perception and behavior; the processes underlying drug dependency, tolerance, and withdrawal; and the implications for drug abuse treatment and prevention strategies, especially concerning adolescents. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390P. Human Factors and Ergonomics.**

This course examines characteristics of people that are applicable to the design of systems and technological devices. This course will illustrate how methods and principles of human factors and ergonomics enhance the usability, safety and performance of human-machine systems.

Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 4390Q. Introduction to Developmental Disabilities.**

This course will provide students with perspectives on the causes, manifestations, and treatment of developmental disabilities throughout the lifespan. Historical views and societal issues will be investigated along with current practices and research. Prerequisites: PSY 1300 and PSY 3315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390R. Intermediate Statistics.**

This course introduces statistical methods designed for psychological research with multiple independent variables. Topics include factorial analysis of variance and multiple regression. Interpreting interaction effects is a main focus. This is a practice-based course that will cover both the theoretical constructs and also step-by-step computer procedures. Prerequisites: PSY 2301 and PSY 2101 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4391. History and Theory.**

Study of the evolution of psychology as a science through a systematic review of the principal scientific and philosophic antecedents of modern psychology, and analysis of the status of the major contemporary theoretical schools. Prerequisites: PSY 3302 or PSY 3402 with a grade of "C" or better, and 24 Psychology hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4393. International Psychology.**

The course focuses on the history, status, and future directions of scientific and professional psychology throughout the world. It requires reading about, discussing, and writing about the relatively new specialty area of international psychology. The objective is to deepen students' knowledge of psychology's relevance to the solution of global problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4395. Individual Study.**

Students design and execute original research, or engage in extensive fieldwork, in the field of psychology under the supervision of a faculty member. All students planning to attend Graduate School are advised to enroll in the course. May be repeated once for additional credit.

Prerequisite: PSY 3402 with a grade of "C" or better and consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4396. Internship in Psychology.**

Extensive field work in a professional setting related to psychology. May be repeated once for additional credit. Prerequisites: 12 hours of PSY and consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Psychology

### Minimum required: 120 semester hours General Requirements

- All majors are required to take at least one course from each of Groups A-C and to take PSY 4391.
- Majors are required to have a minor. See the Minors (p. 58) section of this catalog for a list of approved Texas State minors.
- At least 36 advanced hours must be taken. Of these, at least 18 advanced hours must be in psychology. Sufficient courses from the minor and other electives must be selected to ensure a total of 36 hours of advanced course work.
- Majors are required to complete their Social and Behavioral Sciences component of the general education core curriculum requirement by taking one of the following courses:

Select one of the following:

ANTH 1312	Cultural Anthropology
SOCI 1310	Introduction to Sociology
ECO 2301	Principles of Economics
ECO 2314	Principles of Microeconomics
GEO 1310	World Geography

- Majors are required to complete their Life and Physical Sciences component of the general education core curriculum requirement by taking two courses in:

BIO 1320	Modern Biology I, Molecules, Cells, and Physiology	3
BIO 1421	Modern Biology II, Organisms, Evolution, and Environment	4
BIO 1330 & BIO 1130	Functional Biology and Functional Biology Laboratory	4
BIO 1331 & BIO 1131	Organismal Biology and Organismal Biology Laboratory	4

	First Semester Hours	Second Semester Hours
ENG 1310	3	ENG 1320
		3

US 1100	1 POSI 2310	3
PSY 1300 <sup>1</sup>	3 HIST 1310	3
MATH 1312 (or higher, excluding MATH 1316)	3 Modern Language 1420	4
Modern Language 1410	4 COMM 1310	3
	14	16

**Sophomore**

First Semester Hours	Second Semester Hours	Hours
Select one of the following:	3-4 Select one of the following:	4
BIO 1320	BIO 1421	
BIO 1330 & BIO 1130 (minor)	BIO 1331 & BIO 1131 (minor)	
Modern Language 2310	3 Modern Language 2320	3
PHIL 1305 or 1320	3 PSY 2100	1
HIST 1320	3 PSY 2101 & PSY 2301 <sup>1</sup>	4
POSI 2320	3 English Literature	3
	15	15

**Junior**

First Semester Hours	Second Semester Hours	Hours
PSY 3402 <sup>1</sup>	4 English Literature	3
PSY 3322 <sup>1</sup>	3 PSY Group A	3
B.A. Science <sup>2</sup>	3 Select one of the following:	3
Social and Behavioral Sciences Minor	3 ART 2313	
	3 DAN 2313	
	MU 2313	
	TH 2313	
	Minor	6
	16	15

**Senior**

First Semester Hours	Second Semester Hours	Hours
PSY Group B	3 PSY 4391	3
PSY Group C	3 PSY ADV electives	6
PSY elective	3 ADV minor or electives	5
ADV minor	6	
	15	14

Total Hours: 120

<sup>1</sup> Foundation course for all serious study of psychology; much material covered in later courses depends on a thorough knowledge of topics in these five. These courses are required before students take Group C courses and PSY 4391. PSY 1300 is a prerequisite for all other PSY courses (except PSY 2311).

<sup>2</sup> Majors are required to complete their BA Science requirement by taking one additional science and/or mathematics course, to be selected from the following disciplines: ANTH 2414 or ANTH 2415, any advanced Physical Anthropology or Archaeology course, biology (above 1421), chemistry, physics (including astronomy), mathematics (1317 and above), computer science (1319 and above), geology, PHIL 2330 (only), or GEO 1305 or GEO 2410 (only).

**Group A - Human Development**

Code	Title	Hours
PSY 3300	Lifespan Development	3

PSY 3312	Adolescent Psychology	3
PSY 3313	Psychology of Adulthood and Aging	3

**Group B - Individual Differences/Social Behavior**

Code	Title	Hours
PSY 3315	Abnormal Psychology	3
PSY 3316	Personality Psychology	3
PSY 3331	Social Psychology	3

**Group C - Cognition and Learning**

Code	Title	Hours
PSY 3321	Sensation and Perception	3
PSY 3341	Cognitive Processes	3
PSY 4342	Learning and Memory	3

# Bachelor of Science (B.S.) Major in Psychology

**Minimum required: 120 semester hours****General Requirements**

- All majors are required to take at least one course from each of Groups A-C and to take PSY 4391.
- A science minor must be selected from the Departments of Anthropology (courses to be taken from Physical, Forensic, or Archaeology), Biology, Chemistry and Biochemistry, Computer Science, Geography, Mathematics, or Physics.
- At least 36 advanced hours must be taken. Of these, at least 18 advanced hours must be in psychology; sufficient courses from the minor and other electives must be selected to ensure a total of 36 hours of advanced coursework.
- Majors are required to complete their Social and Behavioral Sciences component of the general education core curriculum requirement by taking one of the following courses:

Select one of the following:

ANTH 1312	Cultural Anthropology	
SOCI 1310	Introduction to Sociology	
ECO 2301	Principles of Economics	
ECO 2314	Principles of Microeconomics	
GEO 1310	World Geography	

- Majors are required to complete their Life and Physical Sciences component of the general education core curriculum requirement by taking two courses in:

BIO 1320	Modern Biology I, Molecules, Cells, and Physiology	3
BIO 1421	Modern Biology II, Organisms, Evolution, and Environment	4
BIO 1330 & BIO 1130	Functional Biology and Functional Biology Laboratory (for Biology minors)	4
BIO 1331 & BIO 1131	Organismal Biology and Organismal Biology Laboratory (for Biology minors)	4

Freshman			
First Semester		Second Semester	
Code	Hours	Code	Hours
ENG 1310	3	ENG 1320	3
US 1100	1	POSI 2310	3
PSY 1300 <sup>1</sup>	3	HIST 1310	3
MATH 1312 (or higher, excluding MATH 1316)	3	Modern Language 1420	4
Modern Language 1410	4	COMM 1310	3
14		16	

Sophomore			
First Semester		Second Semester	
Code	Hours	Code	Hours
Select one of the following:	3-4	Select one of the following:	4
BIO 1320		BIO 1421	
BIO 1330 & BIO 1130 (minor)		BIO 1331 & BIO 1131 (minor)	
Social and Behavioral Sciences	3	PSY 2100	1
HIST 1320	3	PSY 2101 & PSY 2301 <sup>1</sup>	4
POSI 2320	3	Select one of the following:	3
PHIL 1305 or 1320	3	ENG 3303	
		English Literature	
		Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
15		15	

Junior			
First Semester		Second Semester	
Code	Hours	Code	Hours
PSY 3402 <sup>1</sup>	4	Select one of the following:	3
PSY 3322 <sup>1</sup>	3	ENG 3303	
PSY Group A	3	English Literature	
Minor	6	PSY Group B	3
		PSY ADV elective	3
		Minor	6
16		15	

Senior			
First Semester		Second Semester	
Code	Hours	Code	Hours
PSY Group C	3	PSY ADV electives	3
PSY ADV elective	3	PSY 4391	3
Minor or electives	9	ADV minor or electives	8
15		14	

Total Hours: 120

<sup>1</sup> Foundation course for all serious study of psychology; much material covered in later courses depends on a thorough knowledge of topics in these five. These courses are required before students take Group C courses and PSY 4391. PSY 1300 is a prerequisite for all other PSY courses (except PSY 2311).

**Group A - Human Development**

Code	Title	Hours
PSY 3300	Lifespan Development	3

PSY 3312	Adolescent Psychology	3
PSY 3313	Psychology of Adulthood and Aging	3

**Group B - Individual Differences/Social Behavior**

Code	Title	Hours
PSY 3315	Abnormal Psychology	3
PSY 3316	Personality Psychology	3
PSY 3331	Social Psychology	3

**Group C - Cognition and Learning**

Code	Title	Hours
PSY 3321	Sensation and Perception	3
PSY 3341	Cognitive Processes	3
PSY 4342	Learning and Memory	3

## Minor in Forensic Psychology

Forensic is defined as “evidence” or “relating to, used in, or appropriate for courts of law.” This minor looks at forensic issues from both psychological and criminal justice perspectives. The minor is suitable for criminal justice majors or any individual wishing to pursue a background in psychology and criminal justice. The minor also would be good preparation for those individuals wishing to pursue pre-law or social work and for individuals considering graduate coursework in forensic psychology.

A minor in Forensic Psychology requires 21 hours, including the following:

CJ 1310	Introduction to Criminal Justice	3
CJ 2360	Fundamentals of Criminal Law	3
CJ 3329	Forensic Evidence	3
PSY 3315	Abnormal Psychology	3
or PSY 3316	Personality Psychology	
PSY 3331	Social Psychology	3
PSY 3335	Forensic Psychology	3
Select one of the following:		3
ANTH 3380	Forensic Anthropology	
CJ 4340	Crime Theory and Victimization	
SOCI 3343	Criminology	
An elective approved by the Department		

Total Hours 21

Psychology majors pursuing the forensic psychology minor cannot double count courses toward their major and the minor. Enrollment in the required PSY courses assumes that non-psychology majors will have completed PSY 1300 as part of their social science core curriculum component. If not, PSY 1300 is a prerequisite for PSY 3315, PSY 3316, PSY 3331, and PSY 3335. The prerequisite requirements for CJ 3329 and CJ 4340 will be waived only for students pursuing this minor. This is justified by the fact that students will be exploring many of the issues covered in those requisite courses in the psychology coursework portion of the minor.

## Minor in Psychology

A minor in Psychology requires 18 hours, including:

PSY 1300	Introduction to Psychology	3
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Any PSY courses, of which 12 hours must be advanced (3000 or 4000 level) 15

Total Hours 18

## Minor in Sport Psychology

Sport Psychology examines the relationships between psychological concepts, theories and an individual's thoughts toward health and exercise. Current theoretical perspectives of personality factors in exercise, why people exercise, exercise adherence, mental skills and the psychological effects of exercise will be investigated. The minor will focus on topics such as methods of training and coaching, teamwork and leadership, motivation and stress, and social issues in sport. Students will study the relationships between brain biology and behavior. Students will learn to apply psychological theories and perspectives toward understanding thoughts about exercise, an individual's willingness to exercise, choice of exercise, and to assess the relationships between physical health and mental health.

A minor in Sport Psychology requires 21 hours, including the following:

PSY 3331	Social Psychology	3
PSY 3336	Sports Psychology	3
PSY 3350	Cognitive Behavioral Therapies	3
or PSY 3361	Health Psychology	
PSY 3321	Sensation and Perception	3
or PSY 3322	Brain and Behavior	
ESS 3323	Psychosocial Aspects of Exercise and Sport Science	3
ESS 3329	Motor Learning	3
Select one of the following:		3
PHIL 3326	Philosophy and Sport	
SOCI 3340	Sociology of Sport and Leisure	
An elective approved by the Department.		
Total Hours		21

Psychology majors pursuing the sport psychology minor cannot double count courses toward their both major and the minor. Enrollment in the required PSY courses assumes that non-psychology majors will have completed PSY 1300 as part of their social science core curriculum component. If not, PSY 1300 is a prerequisite for PSY 3321, PSY 3331, PSY 3350, PSY 3361, PSY 3322, and PSY 3336.

## Department of Sociology

Undergraduate Academic Center Room 449  
T: 512.245.2113 F: 512.245.8362  
www.soci.txstate.edu (<http://www.soci.txstate.edu>)

Sociology contributes both to the classic liberal arts tradition and to the practical application of the liberal arts to the world of work. The Department of Sociology provides academic advising and encourages all students considering a major in sociology to take advantage of these services. Suggested degree plans, while helpful in planning an academic schedule, should not be used in lieu of academic advising.

Sociology majors may choose the Bachelor of Arts major in Sociology, which prepares them for professional or graduate study in the liberal arts tradition, or the Bachelor of Science major in Applied Sociology, which provides practical research skills for students who wish to attend

graduate school or to enter the work force upon graduation. The B.A. major in Sociology is a 39-hour degree for students interested in entering the professions. As such, it is a pre-professional degree that includes courses designed to prepare students for professional or graduate study. The B.S. is a 39-hour major designed for students who intend to apply sociological principles and practices in governmental and business settings. Students who are interested in collecting, analyzing, interpreting, and presenting data on a variety of social phenomena may select the B.A. or the B.S.

Majors in both degree programs learn to conduct social research, to work with statistical packages, and to enhance the practical skills of writing and analysis. Graduates are prepared for a variety of employment opportunities, including law, management, education, data analysis, public administration, and human resource management in business, government and industrial settings.

## Bachelor of Arts (B.A.)

- Major in Sociology (p. 466)

## Bachelor of Science (B.S.)

- Major in Applied Sociology (p. 467)

## Minors

- Aging and the Life Course
- Sociology (p. 468)
- Studies in Popular Culture (p. 468)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Sociology (SOCI)

### SOCI 1310. Introduction to Sociology.

A survey of the basic concepts in sociology including social organization, culture, socialization, groups, and human population leading to the development of a sociological perspective of human behavior. SOCI 1310 and SOCI 3300 may not both be counted for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** SOCI 1301

### SOCI 2320. Social Problems.

This course examines community problems, significant social issues, and disorganization in major social institutions in contemporary American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SOCI 1306



**SOCI 3300. Principles of Sociology.**

Survey of the discipline of sociology, including socialization, social institutions, collective behavior, urban and community studies, demography, race relations, culture, and personality. Emphasis on basic concepts and the behavioral science approach to the study of human groups. SOCI 1310 and SOCI 3300 may not both be counted for credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 3307. Statistics for the Behavioral Sciences.**

The application of descriptive and inferential statistics of behavioral science data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3317. Popular Culture and Society.**

The content of popular culture, including movies, television, genre novels, popular music, fads and fashion, sports, contemporary folklore, festivals and celebrations, clothing and body decoration, and related cultural material, is examined and analyzed for social significance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3318. Applied Data Analysis.**

This course introduces the student to some of the uses of various existing statistical software packages including proper application, limitations, and interpretations of results. Prerequisites: Three hours of statistics or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3319. Social Psychology.**

The basic course in social psychology; the nature of the individual in society; the process of socialization; the human personality; personality and social adjustment; and social interaction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3320. Population Dynamics.**

A study of the composition of the world's population, focusing on growth, problems, politics, and controls. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3321. Suicide, Society, and Human Experience.**

This course will offer a systematic approach to understanding the human encounter with suicide. Issues of theoretical concern are addressed. The course draws upon current and classic sociological research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3324. Social Stratification.**

The study of inequality as it relates to occupational, educational, religious, political, and other social activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3325. Social Deviance.**

Theoretical and descriptive analysis of the major types of deviant behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3327. Multicultural Relations.**

The nature and the problems inherent in racial and other minority groups, with special reference to the American scene

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3328. Complex Organizations.**

The study and analysis of complex organizations, bureaucracies, and professions and their influence on individuals and society and its institutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3329. Life Course Sociology.**

This course examines major sociological approaches to the study of the human life course. Theoretical approaches reviewed include age stratification, the life course perspective, and constructivist and critical approaches to the life course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3330. Globalization and Development.**

This course covers the sociology of globalization and development. Students will learn about theories of globalization; the effects of globalization on cultural, economic and political life; and factors at different levels of analysis affecting socioeconomic development, security, human rights, and democracy around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3333. The Sociology of Popular Music.**

This course explores the dynamic and interactive relationships between music, culture, and society. Popular American music - from blues, gospel, ragtime, jazz, country, and swing to rock, disco, punk, alternative, and rap - will be analyzed as reflections of culture, as society's "voice," and as a powerful instrument of socialization and social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3337. The Family.**

A comparative study of the family in various cultures, both historical and contemporary, with attention to the family in terms of social organization, social change, and social disorganization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3338. Family Problems.**

This course applies sociological knowledge to common problems encountered in families: spouse and child abuse, elder abuse, catastrophic illness, suicide, unemployment, poverty, teen pregnancy, aging and gender issues. Worldwide traditions and norms affecting the institution of the family are also reviewed. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3340. Sociology of Sport and Leisure.**

The theories and research in leisure and popular culture will serve as the broad framework. An emphasis will be placed on the sub-area of sport sociology, including such topics as sport and aggression, competition, children, women, minorities, professionalism, and others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3343. Criminology.**

The various theories of crime, the cause of crime, areas of crime, treatment of criminals through the courts, punishment, reform, education, probation, and parole, and means of crime prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3344. The Sociology of Law.**

This course introduces students to the function of law in human societies. Theories relevant to the study of law as a mechanism of social control and social change will be discussed. Law as a social institution, the training of lawyer, and their socialization into the role of lawyer will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3347. Juvenile Delinquency.**

Delinquency in modern society, basic factors and conditions of juvenile delinquency, and the problem of delinquency control

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3348. Social Control.**

An examination of the creation and maintenance of order in society, including socialization and institutions which respond to disorder. Included areas are education, religion, law, welfare, and medicine. Focus on law as both a mechanism of control and the basis for control in other institutions in industrial society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3349. Drugs and Society.**

A sociological examination of the social context of drug abuse with emphasis on the social factors, processes, and institutions that impact drug abuse. Applications of sociological theories and research methods will be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3350. Men, Women, and Societies.**

This course examines the relations between male and female roles throughout the world, including the United States, Europe, and third world countries. Special attention is given to changes in these roles and the consequences of such changes for societies, including familial, marital, and sexual relationships. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3353. Urban Society.**

A study of urbanization as a social phenomenon with attention to traditional sociological studies of the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3358. Work and Society.**

This course will explore sociological studies of work and occupations, including the structure of work, economic changes, and concerns of workers such as earnings, promotions, and unemployment. It is divided into three main topics: the social organization of work, current work trends, and inequalities at work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3363. Medical Sociology: The Sociology of Health and Illness Behavior.**

An examination of the social determinants and consequences of human health, morbidity, and mortality, including considerations of health institutions, organizations, professionals, and clients. Social epidemiology of human diseases and mortality and changing relationships of acute and chronic diseases are stressed. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 3365. Society and Environment.**

This course addresses issues emerging from the reciprocal relationship between society and its environment. The impacts of social and economic organization, social class, and government policies on the physical and social milieu will be examined in order to produce a better understanding of social and environmental interactions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3366. Folkways and Folklore: An Introduction.**

A study of the folkways of the cultures of Texas through selected examples of traditional beliefs, customs, folktales, songs, arts, games, artifacts, and techniques for the collection and preservation of folk materials. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 3370. Industrial Sociology.**

The social setting and formal organization of work; individual and group adaptation in industrial organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3372. Food and Society.**

This course surveys the sociological study of food. Students will examine how people in societies socially construct "food"; how people obtain food and the implications of this process for our health, economy, and environment; and how food relates to issues of race-ethnicity, social class, and gender

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3375J. Sociology of Consumption.**

Consumption is an integral part of social life in the United States, shaping how we see ourselves and others. While consumption can enhance consumers' lives, it is linked to a host of social and environmental problems. This course critically examines such problems and explores alternatives to the way of life that is consumerism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375K. Social Movements.**

This course examines social movements, repeated display of collective action outside sanctioned political channels to bring about social change. Different theoretical approaches to social movements will be reviewed to determine how movements organize, attract members, utilize resources, ideologically frame their issues, and engage in nonconventional tactics to influence public policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375L. Mind and Society.**

This course provides an overview of mental health and illness with an emphasis on how social environments and structures influence mental well-being. We will explore the causes and consequences of mental health disorders. We will also examine policies and programs aimed at improving mental health in society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375M. Latinos and Aging.**

This course offers an understanding of the growing Latino aging population in American society, highlighting issues related to their social, familial, economic, physical, and mental well-being. This course will also cover social programs, health and human service needs, and social policies affecting Latino elders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3383. Aging and Society.**

This course is an introduction to the sociology of aging and social gerontology. It employs a multicultural perspective to examine diversity in the aging process as influenced by societal forces

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3384. The Sociology of Death and Dying.**

A study of the sociological and social psychological perspectives on death and dying in contemporary societies with particular emphasis on the meanings of death, on dying as a social process, and on death in the context of both social organization and the life cycle

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3390. Technology and Society.**

The subject of this course is the relationship between technologies and social institutions. Topics covered may include but are not limited to theories of sociotechnical change, diffusion, social constructivism, modernity and rationalism, and case studies of transformative technologies such as the clock, the car, and the birth control pill

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3395. Sociology of Sexuality.**

Sexuality is explored from a social constructionist perspective, in contrast to essentialist and biological determinist perspectives dominating the Western understanding of sexual roles and behavior. Sexual identity, desire, behavior, response, and health are viewed as socially constructed, largely in response to concerns about societal order

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 4306. Sociological Theory.**

This course will examine classical sociological theories and the contemporary theories that follow from them. The major approaches covered are functionalism, conflict theory, symbolic interaction, and phenomenology. Prerequisites: twelve hours of Sociology or departmental approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4308. Quantitative Research Methods.**

Basic issues in social research are introduced, while emphasizing design and analysis of quantitative research studies. Research exercises culminate in a major research paper analyzing secondary data from The General Social Survey. Critique of published research articles is also required. Prerequisites: SOCI 3307 and SOCI 3318. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4309. Qualitative Research Methods.**

This course examines issues in the sociological research process with an emphasis on qualitative methods. Students will design, propose, and submit a qualitative study based on an extensive review of the sociological literature. Prerequisites: twelve hours of Sociology, or departmental permission. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4332. The Sociology of Education.**

An examination of education as a formal institution and as a social system. Emphasis is placed upon the nature and functions of education organization in modern societies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 4360. Directed Study.**

(By arrangement) A course of independent study open to superior students by permission of the professor and approval of the Chair of the department. May be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 4690. Internship in Applied Sociology.**

This course is a supervised work experience related to students' career interests. Requirements include seminars and a 300-hour internship for 15 weeks during long semesters or 10 weeks in the summer. This course is limited to BS majors who meet all prerequisites and can be taken for credit only once

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Sociology

**Minimum required: 120 semester hours**  
**General Requirements**

1. Majors are required to complete:

SOCI 1310	Introduction to Sociology	3
or SOCI 3300	Principles of Sociology	
SOCI 3307	Statistics for the Behavioral Sciences	3
SOCI 3318	Applied Data Analysis	3
SOCI 4306	Sociological Theory	3
SOCI 4308	Quantitative Research Methods	3
SOCI 4309	Qualitative Research Methods	3

- The remaining 21 hours of coursework may be selected from any SOCI courses. Majors are encouraged to consult with the undergraduate academic advisor for elective course selection.
- Sociology majors must select a minor from the list of approved minors in this catalog.
- Nine hours of writing intensive courses (not including ENG 1310 or ENG 1320) are required for graduation.
- The minimum number of hours required for a degree is 120. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the 120 and/or the 36 advanced and/or the 9 hours writing intensive required for graduation

B.A. Science	3	
Minor	3	
	15	12
		<b>Senior</b>
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>
SOCI 4308	3	SOCI 4309 3
SOCI advanced electives	6	SOCI advanced elective 3
Minor	3	SOCI elective 3
Electives (as needed)	3	Minor 6
	15	15

Total Hours: 120

<sup>1</sup> The Social and Behavioral Sciences component of the general education core curriculum may not include SOCI 1310 or SOCI 3300.

## Bachelor of Science (B.S.) Major in Applied Sociology

### Minimum required: 120 semester hours General Requirements

- Majors are required to complete:
 

SOCI 1310	Introduction to Sociology	3
or SOCI 3300	Principles of Sociology	
SOCI 3307	Statistics for the Behavioral Sciences	3
SOCI 3318	Applied Data Analysis	3
SOCI 4306	Sociological Theory	3
SOCI 4308	Quantitative Research Methods	3
SOCI 4309	Qualitative Research Methods	3
SOCI 4690	Internship in Applied Sociology	6

The remaining 15 hours of upper division sociology coursework should be related to their occupational goals or free SOCI advanced electives. Courses should be chosen with the advice of the undergraduate academic advisor.

- The Social and Behavioral Sciences component of the general education core curriculum may not include SOCI 1310 or SOCI 3300.
- In addition to general education core curriculum and requirements for the B.S. degree, students must complete two semesters of coursework in the same foreign language (1410, 1420) unless they successfully completed two years of foreign language in high school, and must complete one additional English sophomore literature course or Technical or Professional Writing (ENG 3303 or ENG 3304).
- The minimum number of hours required for a degree is 120. The number of free elective hours a student will complete depends on the number of hours a student may need to achieve the 120 and/or the 36 advanced total hours required for a degree.

Freshman			
	First Semester Hours	Second Semester Hours	
SOCI 1310	3	Modern Language 1420	4
ENG 1310	3	ENG 1320	3
US 1100	1	COMM 1310	3
Modern Language 1410	4	MATH 1312 (or higher)	3
PHIL 1305 or 1320	3	Life and Physical Sciences	3
Life and Physical Sciences	3		
	17		16

Sophomore			
	First Semester Hours	Second Semester Hours	
SOCI 3307	3	POSI 2320	3
HIST 2310	3	HIST 1320	3
Select one of the following (English Literature):	3	Modern Language 2320	3
ENG 2310		Select one of the following (English Literature):	3
ENG 2320		ENG 2310	
ENG 2330		ENG 2320	
ENG 2340		ENG 2330	
ENG 2359		ENG 2340	
ENG 2360		ENG 2359	
Modern Language 2310	3	ENG 2360	
POSI 2310	3	SOCI 3318	3
	15		15

Junior			
	First Semester Hours	Second Semester Hours	
SOCI advanced electives	6	SOCI 4306	3
Select one of the following:	3	Social and Behavioral Sciences <sup>1</sup>	3
ART 2313		Minor	6
DAN 2313			
MU 2313			
TH 2313			

Freshman			
	First Semester Hours	Second Semester Hours	
SOCI 1310	3	HIST 1310	3
ENG 1310	3	SOCI elective	3
US 1100	1	MATH 1312 (or higher)	3
POSI 2310	3	ENG 1320	3
Life and Physical Sciences	3	Life and Physical Sciences	3

COMM 1310	3		
	16		15
<b>Sophomore</b>			
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
SOCI 3307	3	POSI 2320	3
Select one of the following (English Literature):	3	PHIL 1305 or 1320	3
ENG 2310		SOCI 3318	3
ENG 2320		SOCI advanced elective	3
ENG 2330		Select one of the following (English Literature):	3
ENG 2340		ENG 2310	
ENG 2359		ENG 2320	
ENG 2360		ENG 2330	
Select one of the following:	3	ENG 2340	
ART 2313		ENG 2359	
DAN 2313		ENG 2360	
MU 2313			
TH 2313			
HIST 1320	3		
SOCI advanced elective	3		
	15		15

<b>Junior</b>			
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
SOCI 4306	3	SOCI 4308	3
SOCI, advanced electives	3	SOCI, advanced electives	3
Minor	3	Minor	6
Electives as needed	9	Electives as needed	6
	18		18

<b>Senior</b>			
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
SOCI 4309	3	SOCI 4690 (taken last semester) <sup>1</sup>	6
Electives as needed	5		
Minor	9		
	17		6

Total Hours: 120

<sup>1</sup> In the senior year, majors must complete a field internship (SOCI 4690) related to their applied sociological training and minor concentration. Enrollment in the internship requires completion of all other course work in the major and a Texas State GPA of 2.00, a major GPA of 2.25 and a minor GPA of 2.00.

## Minor in Aging and the Life Course

Students who want a minor that may lead to a career studying gerontology or working with people in their various life stages, including their final stage, should select Aging and the Life Course as a minor.

A minor in Aging and the Life Course requires 18 semester hours including:

Select nine hours from the following:	9
SOCI 3329	Life Course Sociology

SOCI 3383	Aging and Society	
SOWK 4320	Social Work with Older Adults	
PSY 3313	Psychology of Adulthood and Aging	
Select nine hours from the following:		9
SOCI 3327	Multicultural Relations	
SOCI 3329	Life Course Sociology	
SOCI 3337	The Family	
SOCI 3338	Family Problems	
SOCI 3358	Work and Society	
SOCI 3383	Aging and Society	
SOCI 3384	The Sociology of Death and Dying	
SOCI 3395	Sociology of Sexuality	
SOWK 4320	Social Work with Older Adults	
PSY 3313	Psychology of Adulthood and Aging	
PSY 3361	Health Psychology	
Total Hours		18

## Minor in Sociology

A minor in Sociology consists of a minimum of 18 semester hours, including:

SOCI 1310	Introduction to Sociology	3
or SOCI 3300	Principles of Sociology	
SOCI electives, 12 of which must be completed at the advanced (3000-4000) level		15
Total Hours		18

## Minor in Studies in Popular Culture

The Studies in Popular Culture minor is designed to acquaint students with trends in American popular culture. Techniques of research, social meanings and consequences of popular culture are the major foci of the minor.

Courses for the Studies in Popular Culture minor were selected because they deal with significant aspects of everyday life ranging from mass media through the history of cultural trends and phenomenon. The courses selected deal with subjects that both are influenced by and influence popular culture.

SOCI 3317	Popular Culture and Society	3
Select 15 hours of advanced level courses from the following:		15
ANTH 3309	Cultures Through Film	
ENG 3309	The Southwest in Film	
ENG 3326	American Drama on Film	
ENG 3329	Mythology	
ENG 3331	Literature of Black America	
HIST 3343	Social and Intellectual History of the United States Since 1865	
HIST 3368K	American Cultural History	
HIST 3368L	History of Mexican American Music in the Southwest	
HIST 3368M	Popular Music and Social Movements in 20th Century America	
HIST 3368Q	History of Professional Baseball, 1869-1994	



HIST 3368R	History of Rock and Roll
HIST 3368S	History of Music and Race in the American South
HIST 3377	History of Country Music
HIST 3378	History of the Blues
HIST 4376	The History of Texas Music
HIST 4361	History of the United States, 1968 to the Present
PHIL 3325	Philosophy of Sex and Love
PHIL 3326	Philosophy and Sport
MC 3355	Mass Media and Society
MC 4308	Women and Minorities in the Media
MU 3308	History of Rock
MU 3375	History of Jazz
POSI 4301	Politics in Film
SOCI 3324	Social Stratification
SOCI 3333	The Sociology of Popular Music
SOCI 3340	Sociology of Sport and Leisure
SOCI 3349	Drugs and Society
SOCI 3358	Work and Society
SOCI 3365	Society and Environment
SOCI 3372	Food and Society
SOCI 3375J	Sociology of Consumption
SOCI 3390	Technology and Society
SOCI 3395	Sociology of Sexuality
ARTH 3307	Issues in Contemporary Art
COMM 4307	Media Criticism
COMM 4321	American Speeches
COMM 4322	Rhetoric of Protest Movements

Total Hours 18

## College of Science and Engineering

### Dean

Christine E. Hailey, Ph.D.  
Centennial Hall Room 201  
T: 512.245.2119 F: 512.245.8095  
<http://www.cose.txstate.edu/>

### Associate Dean

Robert B. Habingreither, Ed.D.

### Associate Dean

Thomas H. Myers, Ph.D.

### Associate Dean of Research

Gary W. Beall, Ph.D.

### Assistant Dean

Gregory B. Passty, Ph.D.

### Department Chairs/School Directors

Biology—Dittmar Hahn, Ph.D.  
Chemistry and Biochemistry—Debra Feakes, Ph.D., Interim Chair  
Computer Science—Hongchi Shi, Ph.D.  
Engineering—Stan A. McClellan, Ph.D.  
Engineering Technology—Andy H. Batey, Ph.D.  
Mathematics—Susan Morey, Ph.D.  
Physics—Mark W. Holtz, Ph.D.

The mission of the College of Science and Engineering is threefold: to prepare students for careers in the natural sciences, mathematics,

computer science, engineering, or technology; to provide general scientific and mathematical backgrounds for non-science majors; and to prepare students for advanced training in professional or graduate schools. To accomplish its mission the College maintains an academic atmosphere conducive to excellence in teaching and research and enforces high standards of performance for faculty and students.

To ensure an understanding of basic scientific concepts, the College offers extensive opportunities for student participation. Students gain experience in laboratories, interact with the environment through field studies, conduct undergraduate research, and train in technologically advanced instrumentation. A combination of student participation, rigorous classroom instruction, and library research gives majors a competitive advantage in career advancement or in the selection of professional or graduate colleges. The non-science major is assured of adequate scientific knowledge to make informed decisions essential to citizens in a science-oriented, technological world.

The seven academic units in the College of Science and Engineering are the Departments of Biology, Chemistry and Biochemistry, Computer Science, Mathematics, Physics, and Engineering Technology, and the Ingram School of Engineering.

Majors offered in the College include applied mathematics, aquatic biology, biochemistry, biology, chemistry, computer science, concrete industry management, construction science and management, electrical engineering, engineering technology, industrial engineering, interdisciplinary science, manufacturing engineering, mathematics, microbiology, physics, technology management, and wildlife biology. In addition, pre-professional programs of study are available in dentistry, medicine, and pharmacy. Secondary teacher certification may be incorporated into some of the majors.

## Academic Advising Center

Centennial Hall Room 202  
T: 512.245.1315 F: 512.245.9210  
[www.cose.txstate.edu/advising](http://www.cose.txstate.edu/advising) (<http://www.cose.txstate.edu/advising>)

The College of Science and Engineering Undergraduate Academic Advising Center advises current students on academic and administrative issues. Students are informed about matters related to academic general education core requirements, scholarships and awards within the College, the selection of an appropriate major and minor, the selection of appropriate courses, transfer and correspondence courses, academic probation/suspension, the choice of an educational program leading to a bachelor's degree, and participation in pre-professional programs. The Advising Center is a resource for current students who are considering a science major or pre-professional program and provides assistance for students applying for graduation. Career counseling is available in the academic unit of the student's major and through Career Services.

## Teacher Certification

Currently, there are eight Texas science-related teacher certification programs available at Texas State University:

- Chemistry (B.S. major in Chemistry),
- Computer Science (B.A. or B.S. major in Computer Science),
- Life Sciences (B.S. major in Biology),
- Mathematics (B.S. major in Mathematics),
- Physical Science (B.S. major in Chemistry or a B.S. major in Physics),

- Physics/Mathematics (B.S. major in Physics),
- Science (B.S. major in Interdisciplinary Science), and
- Technology Education (B.S. major in Technology Management).

Students seeking any of these certifications need to follow coursework leading to a degree in the appropriate science field, in addition to taking the required certification courses. Relevant information can be found within each departmental section of the catalog. Initial or additional certification may also be acquired as a post-baccalaureate or graduate student.

Students interested in certification are strongly encouraged to see the Science and Engineering Advisor early in their undergraduate program or certification process.

The Bachelor of Science (B.S.) major in Interdisciplinary Science is designed to broadly train students in a wide spectrum of science disciplines in preparation for the Science teacher certification exam for grades 7 through 12. Admission into the program requires both admission to the university and to the Teacher Preparation Program. The Teacher Preparation Program admittance requirements are found in the College of Education section of this catalog. Students successfully completing the program and the Science teacher certification exam will be prepared to teach any high school science subject and in informal science educational settings within communities. There is a high job market need for science teachers nationally and in Texas. Students must enroll and complete all of the required courses in the following degree plan in order to sit for the teacher certification exam.

## Bachelor of Science (B.S.)

- Major in Interdisciplinary Studies (Teacher Certification in Science, Grades 7-12) (p. 470)

## Minors

- Second Teaching Field in Life Science (Grades 7-12) (p. 471)
- Second Teaching Field in Physical Science (Grades 6-12) (p. 471)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Bachelor of Science (B.S.) Major in Interdisciplinary Science (Teacher Certification in Science, Grades 7-12)

**Minimum required: 132 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
2. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. An overall GPA of at least 2.75 or higher to graduate.
4. A GPA of at least 2.75 in all assigned courses in the professional sequence with no grade below a "C".
5. A GPA of at least a 2.75 in all science courses with no grade below a "C".

6. A minor in secondary education is required.
7. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

					Freshman
First Semester	Hours	Second Semester	Hours	Summer	Hours
BIO 1330 & BIO 1130	4	BIO 1331 & BIO 1131	4	BIO 2450	4
CHEM 1341 & CHEM 1142	4	CHEM 1342 & CHEM 1142	4		
MATH 2471	4	PHYS 1430	4		
		MATH 2472	4		
			12	16	4

					Sophomore
First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 2425	4	PHYS 2435	4	Summer I:	
CHEM 2330 & CHEM 2132	4	BIO 2410 or 2411	4	ENG 1310	3
COMM 1310	3	CHEM 3410	4	HIST 1310	3
POSI 2310	3	English Literature	3	Summer II:	
				ENG 1320	3
				HIST 1320	3
			14	15	12

					Junior
First Semester	Hours	Second Semester	Hours	Summer	Hours
BIO 4402	4	BIO 4403	4	Summer I:	
PHYS 3312	3	BIO 4301	3	POSI 2320	3
CI 3325	3	BIO 4416	4	PHIL 1305 or 1320	3
Social and Behavioral Sciences	3	CI 4332	3	Summer II:	
PHYS 3210	2			Select one of the following:	3
				ART 2313	
				DAN 2313	
				MU 2313	
				TH 2313	
			15	14	9

					Senior
First Semester	Hours	Second Semester	Hours		
CHEM 4295	2	EDST 4681	6		
BIO 4408 <sup>1</sup>	4				
Field Based Block:	9				
CI 4370					
CI 4343					

RDG 332:	
15	6

Total Hours: 132

<sup>1</sup> BIO 4408 must be taken in the semester just prior to student teaching.

## Second Teaching Field in Life Science (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Life Science, the requirements are:

BIO 1330 & BIO 1130	Functional Biology and Functional Biology Laboratory	4
BIO 1331 & BIO 1131	Organismal Biology and Organismal Biology Laboratory	4
BIO 2410	Intermediate General Botany	4
BIO 2450	Genetics	4
BIO 4408	Science Processes and Research	4
BIO 4416 or BIO 4454	General Ecology or Plant Ecology	4
CHEM 1341 & CHEM 1141	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1342 & CHEM 1142	General Chemistry II and General Chemistry Laboratory II	4
Total Hours		32

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Second Teaching Field in Physical Science (Grades 6-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Physical Science, the requirements are:

CHEM 1341 & CHEM 1141	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1342 & CHEM 1142	General Chemistry II and General Chemistry Laboratory II	4
CHEM 2341 & CHEM 2141	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 2342 & CHEM 2142	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHEM 3410	Quantitative Analysis	4
CHEM 4295	Laboratory Development and Practice	2
Advanced CHEM		3
PHYS 1430	Mechanics	4
PHYS 2425	Electricity and Magnetism	4
PHYS 2435	Waves and Heat	4
PHYS 3312	Modern Physics	3

Advanced PHYS	6
Total Hours	46

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Second Teaching Field in Life Science (Grades 8-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Life Science, the requirements are:

BIO 1330 & BIO 1130	Functional Biology and Functional Biology Laboratory	4
BIO 1331 & BIO 1131	Organismal Biology and Organismal Biology Laboratory	4
BIO 2410	Intermediate General Botany	4
BIO 2450	Genetics	4
BIO 4408	Science Processes and Research	4
BIO 4416 or BIO 4454	General Ecology or Plant Ecology	4
CHEM 1341 & CHEM 1141	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1342 & CHEM 1142	General Chemistry II and General Chemistry Laboratory II	4
Total Hours		32

## Department of Biology

Supple Building Room 384  
T: 512.245.2178 F: 512.245.8713  
[www.bio.txstate.edu](http://www.bio.txstate.edu) (<http://www.bio.txstate.edu>)

Biology is the study of living systems and how they function. Because the biological sciences have had and continue to have profound impact on questions of concern to human society - longevity, environmental quality, biotechnology - knowledge of the biological sciences is an essential aspect of higher education.

Biologists find employment in research laboratories, regulatory agencies, and education. Interested students should see the major area advisors.

Biology majors take a minimum of 11 courses that include the core curriculum of Functional Biology, Organismal Biology, Genetics, a biological diversity course, a physiology course, Ecology, and Evolution. At the sophomore level and above, a variety of courses in cellular and organismal biology assure a broad education in any of the regions of specialization. Additional required courses in chemistry, mathematics and physics provide a broad scientific background. A minor outside the Biology Department is required for all areas of study except for the Wildlife Biology program. The B.S. major in Biology or in Microbiology is often the choice for those seeking pre-medical and pre-dental education as the courses required for graduation fulfill all the prerequisites required for admission to medical school.

## Teacher Certification

Students may earn the Life Science (Texas Grades 7-12) certification through a B.S. major in Biology. Initial or additional certification may also be acquired as a post-baccalaureate or graduate student. Students

interested in certification are strongly encouraged to see the Science and Engineering Advisor early in their undergraduate program or certification process.

## Bachelor of Science (B.S.)

- Major in Aquatic Biology (p. 479)
- Major in Biology (p. 480)
- Major in Biology (Teacher Certification in Life Sciences, Grades 7-12) (p. 481)
- Major in Microbiology (p. 482)
- Major in Wildlife Biology (Leading to National Wildlife Foundation Certification as a Wildlife Biologist) (p. 482)

## Minors

- Biology (p. 483)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: BIO (p. 472), GS (p. 479)**

## Courses in Biology (BIO)

BIO 1320 and BIO 1421 may be taken in any order. BIO 1320 and BIO 1421 will not meet the requirements for medical or dental schools.

### BIO 1130. Functional Biology Laboratory.

Fundamental techniques and instruments used in cellular biological research will be taught while emphasizing safety, measurements, and scientific methods. Students will design and implement controlled experiments, identify independent and dependent variables, analyze data, draw conclusions, and communicate results with appropriate tables and graphs in oral presentations and written papers

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1106

### BIO 1131. Organismal Biology Laboratory.

This course introduces the students to the basics of experimental design, scientific method and inquiry, use of statistical analyses and writing research papers. Topics covered include Mendelian and population genetics, natural selection, population ecology, phylogeny, and behavioral ecology

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1107

### BIO 1320. Modern Biology I, Molecules, Cells, and Physiology.

Provides students with basic scientific and biological principles. Current problems in biology and the ethics of science are presented with perspectives of public policy from a scientific viewpoint. This course is not recommended for majors in the natural sciences, including biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1308

### BIO 1330. Functional Biology.

This course provides the students with a strong foundation in cellular and molecular biology. Topics include biochemistry, energy metabolism, molecular bases of gene regulation and protein functions, cell division and control, and cell signaling. This course is required for all biology majors and is not recommended for non-science majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1306

### BIO 1331. Organismal Biology.

This course provides science majors with a foundation in organismal biology, Mendelian and population genetics, evolution and ecology. Topic include: patterns of inheritance, genetics, evolution, speciation, phylogenetics, and behavioral population, community, and ecosystem ecology. This course is required for all biology majors and is not recommended for non-science majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1307

### BIO 1421. Modern Biology II, Organisms, Evolution, and Environment.

This course provides the nonscience major the strong and diverse background necessary to understand the structural and functional diversity of organisms, evolution and behavior, and interactions among organisms and their environment. Topics include issues such as the genetic basis of behavior, overpopulation and extinction, ozone depletion, and conservation biology. This course is not recommended for majors in the natural sciences, including biology

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1409

### BIO 2400. Microbiology.

Principles of microbiology, morphology, anatomy, physiology and taxonomy of representative groups of non-pathogenic organisms. Laboratory methods stress studies of pure cultures, the use of laboratory apparatus in quantitative determinations and the detection and identification of microbial populations in the environment. Prerequisites: BIO 1330 and BIO 1130, and BIO 1331 and BIO 1131; and CHEM 1341 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2421

### BIO 2410. Intermediate General Botany.

An introduction to the biology of plants and plant-like organisms, emphasizing their role in ecosystem processes, relationships between structure and function, and the evolutionary relationships among the major plant groups. Prerequisites: BIO 1330 and BIO 1130, and BIO 1331 and BIO 1131 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 2411. Intermediate Zoology.**

Provides biology majors a strong foundation in animal biology at the organismal level. The format will include details of animal form and function as well as concepts relating to classification, phylogeny, evolution, and ecology. Topics will include natural history, biogeography, adaptations to local environments, shared characters, and behavior. All material is presented in an accepted phylogenetic sequence. Prerequisites: BIO 1330/BIO 1130, and BIO 1331/BIO 1131 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 2430. Human Physiology and Anatomy.**

A course on human physiology covering the various organ systems. Principles of molecular biology, cell and tissue structure, anatomy and relationship of structure and function are stressed. May not be credited toward a Biology major or minor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2404

**BIO 2440. Principles of Microbiology.**

The Basic Principles of microbiology, morphology, physiology, immunology and the relationship of microorganisms to diseases. This course is designed primarily to meet the requirements for students in allied health sciences and other programs requiring only one semester of microbiology. This course may not be credited toward a biology major or minor. Prerequisites: BIO 1330 and CHEM 1341 with minimum grades of D

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2420

**BIO 2450. Genetics.**

An introduction to basic principles of Genetics by studies of Mendelian, molecular, quantitative and population genetics. Topics include: classical transmission genetics, and gene mapping, DNA replication and repair, transcription, translation, control of gene expression, genetic engineering techniques, Hardy-Weinberg equilibrium, evolutionary change via natural selection, and genetic drift. Prerequisites: BIO 1330, BIO 1130, BIO 1331 and BIO 1131; CHEM 1141, CHEM 1341, CHEM 1142, and CHEM 1342 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2416

**BIO 2451. Human Anatomy and Physiology I.**

Part I of a two semester course on the structure and function of the human body. Designed specifically to prepare students for nursing and other health professions. Prerequisites: BIO 1330 and CHEM 1341 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2401

**BIO 2452. Human Anatomy and Physiology II.**

This course is the second part of a two semester course on the structure and function of the human body designed specifically to prepare students for nursing and other health professions. Prerequisites: BIO 1330, CHEM 1341, BIO 2451, with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2402

**BIO 3300. Cell and Molecular Biology.**

Fundamentals of structure and function of prokaryotic and eukaryotic cells. Course includes cell and organelle structure, basic biochemistry, principles of thermodynamics and energy transformation, nucleic acid and protein synthesis, enzyme kinetics, cell motility and cell signaling. Prerequisites: BIO 1330, BIO 1130, BIO 2450, and CHEM 1342 with grades of "C" or higher, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 3308. Global Ecology.**

An interdisciplinary introduction to the science of global environmental change. Emphasis will be placed on understanding principles of earth system science, the scientific basis underlying the major components of global environmental change, the linkages between these components, and the central role of humanity in contributing to the observed changes. Prerequisites: BIO 1330, BIO 1130, BIO 1331 and BIO 1131 with grades of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3351. Forensic and Human Genetics.**

This course introduces students to basic principles of Mendelian, molecular, and forensic genetics as it relates to the problems of human populations. This course is intended for non-science majors. May not be credited towards a biology major or minor. Prerequisites: BIO 1320 and BIO 1421, or BIO 1330/BIO 1130 and BIO 1331/BIO 1131

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 3406. Economic Botany.**

An introduction to the utilization of plants by humans and their economic and ecological significance. Laboratories will stress plant features beneficial to economic and societal needs. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3410. Phycology.**

A study of algal organisms, comparative and culture techniques. Prerequisites: 8 hours from BIO 1410, BIO 2410, BIO 2450, BIO 3400, or BIO 3450 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 3421. Vertebrate Physiology.**

The study of the physiology of vertebrate organ systems, including the nervous system, musculoskeletal system, endocrine system, cardiovascular system, respiratory system, digestive system, reproductive system and urinary system. Mammalian systems will be emphasized. Prerequisites: BIO 2450 with a grade of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3430. Mycology.**

A study of the fungal kingdom including slime molds and lichens. Laboratory studies will emphasize taxonomy, morphology and culture techniques. Prerequisites: BIO 2410 or BIO 2400, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3442. Virology.**

The structure, multiplication and genetics of bacterial, plant, and animal viruses. The role of viruses in human and plant disease. Prerequisites: BIO 2400, BIO 2450 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3460. Aquatic Biology.**

An introduction to plant and animal life in the fresh water habitats of the local area. Prerequisites: BIO 2411, BIO 2450 with grades of "C" or higher, and one year of Chemistry. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3461. Plant Taxonomy.**

Principles of identification and classification of plants; nomenclature and characteristics of various plant groups with emphasis on the higher plants. Prerequisites: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3465. Plant Physiology.**

Basic principles of plant physiology studied in lecture and laboratory. Prerequisite: BIO 2450 with a grade of "C" or higher or consent of instructor. One semester of organic chemistry is strongly recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3470. Invertebrate Zoology.**

A study of the comparative morphology, evolution, systematics and natural history of invertebrates. Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3480. Histology.**

A study of the structural and functional relationships between cells and tissues in organs. The laboratory includes the study of prepared slides and of microtechnique. This course is designed to meet the needs of pre-professional students. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3490. Principles of Developmental Biology.**

This course will cover basic principles of developmental biology in both plant and animal systems. Course will mainly address cell, molecular and genetic mechanisms underlying the development of model organisms. Prerequisites: BIO 1430 and BIO 2450

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4126. Immunology Laboratory.**

This laboratory-based course will cover cells of the immune system and basic serological reactions, including bacterial and viral agglutination reactions, precipitation, immunoelectrophoresis, immunofluorescence, and enzyme-linked immunosorbent assays. Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher. Pre- or co-requisite: BIO 4326

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4166. Medical Microbiology Laboratory.**

This laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450, with grades of C or higher. Corequisite: BIO 4345. (WI)

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4299. Undergraduate Research.**

Supervised individual research projects in a mentor-student relationship with a biology professor. Available only to biology majors with junior standing and at least a "B" average. May be repeated once for credit. Prerequisites: BIO 2450 with a grade of "C" or higher and consent of the supervising professor

**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**BIO 4300. Neurobiology.**

This course will give students an overview of neuroscience, particularly the areas of neuroanatomy, neurophysiology, and evolutionary and developmental neurobiology. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, speciation and man's future. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems and certain other selected topics. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4304. Wildlife and Recreation: Impact, Policy, and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisite: BIO 4416

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4305. Nature Study.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed. Prerequisite:

BIO 2450 Genetics with a grade of C or higher; or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4319. Biological Resources: Conservation and Planning.**

This course is an introduction to the protection and sustainable use of populations, species, habitats, and ecosystems. Course also includes study of the methods used to analyze biodiversity and population regulation. Prerequisite: BIO 4416 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4326. Immunology.**

This lecture-based course will cover the biology of the immune system and its relationship to disease, emphasizing B and T cell immunity, immune diseases, hypersensitivities, transplantation, and cancer.

Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4350B. Biological Implications of Water Planning in Texas.**

Current topics in understanding the biological implications of water planning in Texas. This course will be of particular interest to students who have a background in aquatic biology and who intend to stay in Texas post-graduation. Prerequisites will be determined by topic and faculty offering the course. May be repeated once with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350D. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350E. Techniques in Aquatic Biology.**

This course will provide hands on experience with a suite of physical, chemical, and biological sampling techniques and gear used in applied river studies. Students will be exposed to the fundamentals of data quality objectives, accuracy, precision, detection limits, data visualization, exploratory analysis, univariate and multivariate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350I. Bird Conservation and Management.**

This course is an introduction to the conservation and management of bird populations in an ecological context. Course covers a variety of species and spatial scales from landscape to ecoregion. Laboratory portion will involve field trips, intensive computer-based labs, and class discussion. Prerequisites: BIO 4416 or concurrent enrollment

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Prerequisites: BIO 1330, BIO 1331, and BIO 2450 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350K. Genomics.**

The course is a lecture covering modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350L. Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law have developed in North America, particularly in the United States. Federal treaties, statutes, case law, and regulations pertaining to wildlife will be presented. Wildlife law from representative states will be referenced as well. Prerequisite: BIO 4423 or 4435 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350N. Aquatic Toxicology.**

This course examines the basic concepts of aquatic toxicology, including uptake mechanisms, interactions and elimination of different toxicants. Students will understand how toxic substances impact freshwater and marine environments and identify potential health impacts to humans. Topics to be discussed include nutrients, metals, petroleum, radionuclides, plastics and emerging contaminants. Restricted to Junior standing. Prerequisite: A minimum 2.5 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350O. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Restricted to Juniors and Seniors with a minimum 2.50 Overall GPA. Co-requisite: BIO 4350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 4350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 4350O, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Restricted to juniors and seniors with a minimum 2.5 Overall GPA. Co-requisite: BIO 4350O

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 4350O

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change. Must be at least a Junior to enroll with a minimum 2.5 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. It is designed on topics of applied microbiology recommended by American Society of Microbiology. Prerequisites: BIO 2400 and BIO 2450 (or equivalent), with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350S. Marine Resources.**

This course examines the economic importance of marine resources and the exploitation and fragility of the marine environment. Topics to be examined include ocean ownership, overfishing, aquaculture, shark finning, whaling, ocean mining, marine transportation, tourism, pollution, harvesting energy from the ocean and the importance of creating marine reserves

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability, is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350V. Fish Physiology.**

This course examines the primary physiological functions in fish, including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges. Prerequisite: BIO 2450 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, epidemiology and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher. Students may take only one of BIO 4345, BIO 4350G or BIO 4445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4369. Biosystematics.**

Biological systematics is a multidisciplinary component of most biological disciplines. Course topics include: classification schemes, homology, homoplasy, the application of nomenclature, and phylogeny reconstruction. The course will also present relevant issues in conservation, biodiversity cataloging, museum and collection management, and identification methods/dichotomous keys. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4402. Earth Science I.**

The description and interpretation of earth phenomena considered from the standpoint of meteorology and astroscience. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. May not be counted toward a major or minor in biology. Required for those seeking grade 4-8 Science and Mathematics/Science certification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. May not be counted toward a major or a minor in biology. Required for those seeking grade 4-8 Science and Mathematics/Science certification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, vegetational regions and surface geology of central Texas. Emphasis is placed on plant-soil-water relationships to develop conservation concepts. Students will make a representative collection of plants. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4411. Morphology of the Vascular Plants.**

The structure, life-cycles and evolution of fossil and living vascular plants. Emphasis on such topics as the origin of land plants, evolution of the ovule, angiospermy, the flower and fruit. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of Chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4412. Plant Anatomy.**

The anatomy of vascular plants stressing descriptive, development and comparative aspects of seed plants and the anatomical adaptations of plants to environmental factors. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of Chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history and evolution of fishes. Field trips will be made to collect specimens and laboratory periods will be devoted to morphological and systematic analysis. Prerequisites: BIO 2411, 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4416. General Ecology.**

The ecological relationships that exist between organisms and those relationships that exist between organism and environment. Laboratory sessions will be devoted to literature review and/or specific ecological problems. This course or BIO 4454 is required of all biology majors. Prerequisites: BIO 2450; BIO 2410, BIO 2411, or BIO 2400 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 4420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is upon taxonomy, speciation and biotic provinces. The laboratory will include field trips for the study and collection of animals in their natural habitats. Students will assemble a representative collection of animals. Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher and permission of instructor required for non-wildlife majors. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4421. Ornithology.**

Introduction to anatomy, behavior, ecology and identification of birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4422. Mammalogy.**

The taxonomy, distribution, ecology, behavior and evolution of mammals with particular emphasis on wild animals of the southwest. Laboratory will emphasize anatomy, identification, preparation of specimens and field exercises in the methods of population analysis. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher. BIO 4416 is also recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4423. Wildlife Management.**

Applications of the principles of ecology and natural history to the management of wildlife habitats and control of wildlife populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation and field trips to observe wildlife management projects. Prerequisites: BIO 2410, BIO 2411, and BIO 2450 with a grade of "C" or higher. BIO 4416, BIO 4421, or BIO 4422 is also recommended. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4425. Biometry.**

Basic principles of statistical methods as applied to biological problems such as sampling techniques, analysis of data, experimental design and population dynamics. Emphasis will be on practical application. Prerequisites: BIO 2450 with a grade of "C" or higher; MATH 1315

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher and permission of instructor required for non-wildlife majors

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: BIO 2450 and CHEM 2330 or CHEM 2341 or CHEM 2342. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry; UV-spectrophotometry; fluorescence; flame and atomic absorption spectrophotometry; paper, gas, gel filtration and ion exchange chromatography; radioactive counting; and electrophoresis. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4446. Microbial Ecology.**

This course will illustrate the wide variety of bacteria in nature, their interactions with other organisms and the environments, and their roles in global cycling of elements such as carbon, nitrogen, and sulfur. The laboratories will feature enrichments for selected groups of microorganisms (sulfate reducers, nitrogen fixers) and analysis of these isolates by microscopy, gas chromatography and radiochemical substrate utilizations. Prerequisites: BIO 2400 and BIO 2450 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4447. Microbial Physiology and Genetics.**

This course will cover fundamental concepts in bacterial physiology and genetics, including central and specialized metabolism, and unique aspects of bacterial genetics. Prerequisites: BIO 2400 and BIO 2450; CHEM 2142 and CHEM 2342 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4450. Physiological Ecology of Animals.**

This course will cover fundamental concepts in bacterial physiology and genetics, including central and specialized metabolism, and unique aspects of bacterial genetics. Prerequisites: BIO 2400, BIO 2450; CHEM 2142, CHEM 2342 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 4454. Plant Ecology.**

Physiological ecology and community structure and function in the organization of terrestrial plant ecosystems. Quantitative vegetational sampling and the use of field and laboratory physiological equipment are included in the laboratory. This course or BIO 4416 is required of all Biology majors. Prerequisite: BIO 2450 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4464. Vertebrate Anatomy.**

This course is a comparative study of vertebrate anatomy. Fossil histories are evaluated to understand how vertebrate radiation occurred in the geological past, along with changes in structure of organs and organ systems. Lab includes dissection of representative members of each major vertebrate group. Prerequisite: BIO 2450. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4465. General Entomology.**

Principles of morphology, physiology and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4470. Limnology.**

The physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnological sampling methods, chemical, and biological analysis of samples and hydrographic surveying are included in the laboratory. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of chemistry. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: BIO 2450; and BIO 2400, BIO 2410, or BIO 2411 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4480. Cytology and Microtechnique.**

A study of cellular structure and microscopic technique. The lecture portion of the course presents cytology of all cell types and theoretical aspects of microscopy including light and electron-based technologies. The laboratory portion of the course provides training in standard light and electron microscopy, laser scanning confocal microscopy, and digital microscopy. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper, reporting the internship experience conducted at the biological unit under the supervision of a faculty member, will be required. This course may be credited toward a biology major with prior approval of the biology department adviser and chair. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Courses in General Science (GS)

**GS 3310. General Science.**

This course is a laboratory course designed to acquaint the student with the fundamentals of chemistry and earth space science. It is non-creditable for science majors but is a required course for Elementary EC-6 Generalist certification. Prerequisites: PHYS 1310, PHYS 1320, and PHYS 1110; or PHYS 1410 and PHYS 1420 all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GS 3320. General Science.**

This course is a laboratory course designed to acquaint the student with the fundamentals of biological science. It is non-creditable for science majors but is a required course for Elementary EC-6 Generalist certification. Prerequisite: BIO 1320, BIO 1421, BIO 1330 and BIO 1130, or BIO 1331 and BIO 1131 completed with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## Bachelor of Science (B.S.) Major in Aquatic Biology

### Minimum required: 120 semester hours General Requirement

1. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

		Freshman	
	First Semester Hours		Second Semester Hours
BIO 1330 & BIO 1130	4	BIO 1331 & BIO 1131	4
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
US 1100	1	ENG 1320	3
ENG 1310	3	HIST 1310	3
POSI 2310	3		
	15		14
		Sophomore	
	First Semester Hours		Second Semester Hours
BIO 2450	4	BIO 2411	4
CHEM 2141	1	CHEM 2142	1
CHEM 2341	3	CHEM 2342	3
Select one of the following: <sup>1</sup>	3	Select one of the following: <sup>1</sup>	3

MATH 2321 & MATH 2328	MATH 2321 & MATH 2328	
MATH 2321 & MATH 2331	MATH 2321 & MATH 2331	
MATH 2471 & MATH 2472	MATH 2471 & MATH 2472	
HIST 1320	3 Select one of the following:	3
	ART 2313	
	DAN 2313	
	MU 2313	
	TH 2313	
	POSI 2320	3
		17
	14	17

Junior		
First Semester Hours	Second Semester Hours	Hours
BIO 3421 or 3465	4 BIO Advanced Electives <sup>2</sup>	3
PHYS 1315	3 PHYS 1325	3
PHYS 1115	1 PHYS 1125	1
COMM 1310	3 English Literature <sup>3</sup>	3
PHIL 1305 or 1320	3 Social and Behavioral Sciences <sup>3</sup>	3
	Minor/Advanced Electives <sup>4,5</sup>	3
		16
	14	16

Senior		
First Semester Hours	Second Semester Hours	Hours
BIO 4415	4 BIO 4301	3
BIO 3460	4 BIO 4416	4
BIO 4470	4 Minor/Advanced Electives <sup>4,5</sup>	4
Minor/Advanced Electives <sup>4</sup>	3 Electives <sup>5</sup>	4
		15
	15	15

Total Hours: 120

<sup>1</sup> Math requirements may be satisfied by taking MATH 2321 and MATH 2328, or MATH 2321 and MATH 2331, or MATH 2471 and MATH 2472.

<sup>2</sup> BIO 4299 requires faculty and departmental chair approval to count toward the advanced electives. Biology advanced electives cannot include: BIO 3351, BIO 4305, BIO 4402, BIO 4403, and BIO 4408.

<sup>3</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

<sup>4</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.

<sup>5</sup> Recommended minor is chemistry or biochemistry. Minor and electives should be chosen in consultation with the academic advisor.

## Bachelor of Science (B.S.) Major in Biology

**Minimum required: 120 semester hours**  
**General Requirement**

1. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree.

In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman			
First Semester Hours		Second Semester Hours	
BIO 1330 & BIO 1130	4 BIO 1331 & BIO 1131		4
CHEM 1141	1 CHEM 1142		1
CHEM 1341	3 CHEM 1342		3
US 1100	1 ENG 1320		3
ENG 1310	3 HIST 1310		3
POSI 2310	3		3
		14	
	15		14

Sophomore			
First Semester Hours		Second Semester Hours	
BIO 2450	4 Select one of the following:		4
CHEM 2141	1 BIO 2400		1
CHEM 2341	3 BIO 2410		3
HIST 1320	3 BIO 2411		3
Mathematics (See Pair Choices) <sup>1</sup>	3 CHEM 2142		3
	CHEM 2342		3
	Select one of the following:		3
	ART 2313		1
	DAN 2313		1
	MU 2313		1
	TH 2313		1
	POSI 2320		3
	Mathematics (See Pair Choices) <sup>1</sup>		3
		17	
	14		17

Junior			
First Semester Hours		Second Semester Hours	
BIO 4416	4 BIO Advanced Physiology <sup>2</sup>		4
PHYS 1315	3 PHYS 1325		3
PHYS 1115	1 PHYS 1125		1
COMM 1310	3 English Literature <sup>3</sup>		3
PHIL 1305 or 1320	3 Social and Behavioral Sciences <sup>3</sup>		3
		14	
	14		14

Senior			
First Semester Hours		Second Semester Hours	
BIO Advanced Electives <sup>4,5</sup>	8-9 BIO 4301		3
Minor/Advanced Electives <sup>4,6</sup>	7-8 BIO Advanced Electives <sup>4,5</sup>		6-7
	Minor/Advanced Electives <sup>4,6</sup>		2-3
	Electives <sup>6</sup>		4
		16	
	16		16

Total Hours: 120

<sup>1</sup> Math requirements may be satisfied by taking MATH 2321 and MATH 2328, or MATH 2321 and MATH 2331, or MATH 2471 and MATH 2472

<sup>2</sup> Choose one Advanced Physiology course from: BIO 3421 (fall or spring), BIO 3465 (fall), or BIO 4441 (spring).

- <sup>3</sup> See the Academic Services section of this catalog for general education core curriculum requirements.
- <sup>4</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- <sup>5</sup> BIO 4299 requires faculty and departmental chair approval to count toward the 15 hours of advanced BIO electives. Biology advanced electives cannot include: BIO 3351, BIO 4305, BIO 4402, BIO 4403, and BIO 4408.
- <sup>6</sup> Recommended minor is chemistry or biochemistry. Minor and electives should be chosen in consultation with the academic advisor.

## Bachelor of Science (B.S.) Major in Biology (Teacher Certification in Life Science, Grades 7-12)

### Minimum required: 125 semester hours General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
2. If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. A Secondary Education minor is required.
4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman			
First Semester	Hours	Second Semester	Hours
BIO 1330 & BIO 1130	4	BIO 1331 & BIO 1131	4
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
US 1100	1	ENG 1320	3
ENG 1310	3	HIST 1310	3
POSI 2310	3	COMM 131C	3
15		17	

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
BIO 2450	4	BIO 2410	4	Summer I	
CHEM 2141	1	CHEM 2142	1	English Literature <sup>2</sup>	3
CHEM 2341	3	CHEM 2342	3	HIST 1320	3
Select one of the following: <sup>1</sup>	3	Select one of the following: <sup>1</sup>	3	Summer II	
MATH 2321 & MATH 2328		MATH 2321 & MATH 2328		Select one of the following:	3
MATH 23 & MATH 2328		MATH 23 & MATH 2328		ART 231C	

MATH 2471 & MATH 2472	MATH 2471 & MATH 2472	DAN 2313	
PHYS 1315 & PHYS 111	4 PHYS 1325	3	MU 2313
PHIL 1305 or 1320	3 PHYS 1125	1	TH 2313
			POSI 2320
			3
18		15	
<b>Junior</b>			

First Semester	Hours	Second Semester	Hours
BIO 2400 or 2411	4	BIO Advanced Electives	4
CI 3325	3	Social and Behavioral Sciences <sup>2</sup>	3
BIO 4416	4	BIO Advanced Elective	3
CI 4332	3	ENG 3303	3
14		13	
<b>Senior</b>			

First Semester	Hours	Second Semester	Hours
CI 4370	3	EDST 4681	6
BIO 4408 or 4305 <sup>3</sup>	3-4		
CI 4343	3		
RDG 3323	3		
BIO 4301	3		
15		6	

Total Hours: 125

- <sup>1</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- <sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements.
- <sup>3</sup> Neither BIO 4305 nor BIO 4408 count as advanced electives in any other degree program in Biology.

### BIO Advanced Elective

Select two from the following with advisor approval: 6

BIO 3308	Global Ecology
BIO 3406	Economic Botany
BIO 4410	Field Biology of Plants
BIO 4420	Natural History of the Vertebrates
BIO 4421	Ornithology
BIO 4422	Mammalogy
BIO 4425	Biometry
BIO 4434	Herpetology
BIO 4446	Microbial Ecology
BIO 4454	Plant Ecology
BIO 4465	General Entomology

# Bachelor of Science (B.S.) Major in Microbiology

**Minimum required: 120 semester hours**

## General Requirement

- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	
First Semester Hours	Second Semester Hours
BIO 1330 & BIO 1130	4 BIO 1331 & BIO 1131
CHEM 1141	1 CHEM 1142
CHEM 1341	3 CHEM 1342
US 1100	1 ENG 1320
ENG 1310	3 HIST 1310
POSI 2310	3
15	14

Sophomore	
First Semester Hours	Second Semester Hours
BIO 2450	4 BIO 2400
CHEM 2141	1 CHEM 2142
CHEM 2341	3 CHEM 2342
Mathematics <sup>1</sup>	3 Mathematics <sup>1</sup>
Select one from the following:	3 POSI 2320
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
HIST 1320	3
17	14

Junior	
First Semester Hours	Second Semester Hours
BIO Advanced Elective <sup>2</sup>	8 Choose one course from the following:
PHYS 1315	3 BIO 3421
PHYS 1115	1 BIO 4441
PHIL 1305 or 1320	3 BIO 4447 <sup>2,3</sup>
	BIO Advanced Electives <sup>2,3,4</sup>
	PHYS 1325
	PHYS 1125
	COMM 1310
15	14

Senior	
First Semester Hours	Second Semester Hours
BIO Advanced Electives <sup>2,3,4</sup>	3-4 BIO 4416
Minor/Advanced Electives <sup>5</sup>	9-10 BIO 4301
Social and Behavioral Sciences <sup>6</sup>	3 Minor/Advanced Electives <sup>4,5</sup>
	English Literature <sup>6</sup>
	3

Electives <sup>5</sup>	5-6
15	16

Total Hours: 120

- Math requirements may be satisfied by taking MATH 2321 and MATH 2328, or MATH 2321 and MATH 2331, or MATH 2471 and MATH 2472.
- Fifteen hours of advanced BIO electives are required of which 11-12 hours must be chosen from: BIO 3430, BIO 3442 (fall), BIO 4326/BIO 4126 (spring), BIO 4366/BIO 4166 (fall), BIO 4446 (spring), BIO 4447 (fall), BIO 4350L (spring), BIO 4480 (fall), or BIO 4413 (fall) Junior year - 2nd Semester.
- BIO 4447 can only be used to satisfy the physiology requirement or the advanced microbiology course requirement, but not both.
- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- Recommended minor is chemistry or biochemistry. Minor and electives should be chosen in consultation with the academic advisor.
- See the Academic Services section of this catalog for general education core curriculum requirements.

# Bachelor of Science (B.S.) Major in Wildlife Biology (leading to National Wildlife Foundation certification as a Wildlife Biologist)

**Minimum required: 127 semester hours**

## General Requirements

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	
First Semester Hours	Second Semester Hours
BIO 1330 & BIO 1130	4 BIO 1331 & BIO 1131
CHEM 1141	1 CHEM 1142
CHEM 1341	3 CHEM 1342
US 1100	1 ENG 1320
ENG 1310	3 HIST 1310
POSI 2310	3
15	14

Sophomore	
First Semester Hours	Second Semester Hours
BIO 2450	4 BIO 2411
CHEM 2130	1 PHYS 1315 & PHYS 111
CHEM 2330	3 MATH 2328

MATH 2321	3 English Literature <sup>1</sup>	3
Select one of the following:	3 POSI 2320	3
ART 2313		
DAN 2313		
MU 2313		
TH 2313		
HIST 1320	3	
	17	17

	First Semester	Hours	Second Semester	Hours	Summer	Junior Hours
BIO 2410		4	BIO Advanced Physiology <sup>3</sup>		4 Summer I:	
BIO Advanced Elective <sup>2</sup>		4	BIO Advanced Electives <sup>2</sup>		4 PHIL 1305 or 1320	3
BIO 4416		4	BIO Advanced Electives <sup>4</sup>		3 Social and Behavioral Sciences <sup>1</sup>	3
COMM 131C		3	ENG 3303		3 Summer II:	
					BIO Advanced Electives <sup>5</sup>	4
		15		14		10

	First Semester	Hours	Second Semester	Hours	Senior Hours
BIO 4304		3	BIO 4301		3
BIO Advanced Electives <sup>5</sup>		4	BIO 4425		4
BIO 4423		4	BIO 4435		4
			BIO 4319		3
		11		14	

Total Hours: 127

<sup>1</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

<sup>2</sup> Choose two Advanced Biology electives from: BIO 3461 (Spring), BIO 4410 (Fall/Summer I) or BIO 4454 (Spring).

<sup>3</sup> Choose one Advanced Physiology course from: BIO 3421 (fall or spring), BIO 3465 (fall), or BIO 4441 (spring).

<sup>4</sup> Choose one Advanced Biology elective from: BIO 4421 (Spring) or BIO 4418 (Summer I) or BIO 4350I (Fall).

<sup>5</sup> Choose two Advanced Biology electives from: BIO 4420 (Summer I), BIO 4422 (Fall) or BIO 4434 (Spring).

## Minor in Biology

A minor in Biology includes:

BIO 1330 & BIO 1130	Functional Biology and Functional Biology Laboratory	4
BIO 1331 & BIO 1131	Organismal Biology and Organismal Biology Laboratory	4
BIO 2450	Genetics <sup>1</sup>	4
Advanced BIO <sup>2</sup>		9
Total Hours		21

<sup>1</sup> CHEM 1341, CHEM 1141 and CHEM 1342, CHEM 1142 are prerequisites for BIO 2450.

<sup>2</sup> Not to include BIO 3351, BIO 4299, BIO 4305, BIO 4402, BIO 4403, or BIO 4408.

A grade of "C" or higher is required in all prerequisite courses.

## Department of Chemistry and Biochemistry

Chemistry Building Room 238

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[www.txstate.edu/chemistry](http://www.txstate.edu/chemistry) (<http://www.txstate.edu/chemistry>)

Chemistry is the central science and the study of chemistry provides the essential knowledge needed to address many of society's most pressing needs, such as feeding, clothing, and housing the peoples of the world; tapping new sources of energy; improving health and conquering disease; providing renewable substitutes for dwindling resources; strengthening our national security; and monitoring and protecting our environment. Basic research in chemistry will help future generations address their evolving needs and ensure a higher quality of life.

Chemists and biochemists can work in almost any field and find careers in teaching, research, production, quality control, technical services, and/or sales. Graduates from the Department of Chemistry and Biochemistry have an excellent record of job placement in industrial, academic, and government positions. Many also seek advanced degrees or pursue careers in medicine, dentistry, or pharmacy.

Chemistry and biochemistry majors gain skills in quantitative thinking and problem solving. Majors can work as laboratory instructors for lower division courses or as research assistants in faculty research laboratories. Students often participate in internships and research programs both on and off campus during the summer. The faculty, facilities, library holdings, and chemistry curriculum of the Department of Chemistry and Biochemistry have been accredited by the American Chemical Society. Recipients of a B.S. major in Chemistry or B.S. major in Biochemistry, who have fulfilled the minimum requirements for professional chemists, are awarded certificates by the American Chemical Society. Receipt of the ACS certificate is recommended as preparatory training for work in industry or for continued graduate studies in chemistry or biochemistry. The Biochemistry program is accredited by the American Society for Biochemistry and Molecular Biology and recipients of a B.S. major in Biochemistry are awarded an ASBMB-certified degree upon successful completion of a scored examination.

Students seeking a B.S. major in Chemistry begin their studies taking foundation courses in chemistry, physics and mathematics. After completion of the foundation courses, students take advanced courses and laboratories in physical chemistry, analytical chemistry, inorganic chemistry and organic chemistry. A minor is required for this degree.



Students seeking a B.S. major in Biochemistry begin their studies taking foundation courses in chemistry, biology, physics and mathematics. After completion of the foundation courses, students take advanced courses and laboratories to gain knowledge and experience in the modern techniques of biochemistry and molecular genetics. The Biochemistry curriculum meets the standards set by the American Society for Biochemistry and Molecular Biology. A minor is required for this degree.

Qualified chemistry or biochemistry majors completing their junior year of chemistry courses who plan to pursue advanced studies have the opportunity to complete both B.S. and M.S. degrees with one additional year of course work and research after receipt of a B.S. degree. Students must be active in undergraduate research prior to their senior year to be eligible for the program.

## Pharmacy

Pharmacy is a professional program and prerequisite courses required in order to apply to Pharmacy School may be taken at Texas State. The eight pharmacy schools in Texas (The University of Texas at Austin, University of Houston, Texas Southern University, Texas A&M Health Science Center, Texas Tech University Health Science Center, University of North Texas Health Science Center, University of the Incarnate Word, and The University of Texas at Tyler) all require two years of prerequisite courses in chemistry, biology, math, physics, English, humanities and social sciences, but the exact courses required vary by school. Consequently, it is imperative that pre-pharmacy students consult with an advisor prior to and during their pre-pharmacy program. For more information contact the Department of Chemistry and Biochemistry pre-pharmacy advisor.

## Teacher Certification

Students may earn either a Chemistry (Grades 7-12) or Physical Science (Grades 6-12) certification in Texas, while pursuing a B.S. major in Chemistry. Initial or additional certification may also be acquired as a post-baccalaureate or graduate student. Students interested in certification are strongly encouraged to see the Science Advisor early in their undergraduate program or certification process.

## Bachelor of Science (B.S.)

- Major in Biochemistry (p. 488)
- Major in Chemistry (p. 488)
- Major in Chemistry (Teacher Certification in Chemistry, Grades 7-12) (p. 489)
- Major in Chemistry (Teacher Certification in Physical Science, Grades 6-12) (p. 489)

## Bachelor of Science and Master of Science (B.S./M.S.)

- Major in Biochemistry (Early-Entry Combined Program) (p. 490)
- Major in Chemistry (Early-Entry Combined Program) (p. 491)

## Minors

- Biochemistry (p. 492)
- Chemistry (p. 492)
- Second Teaching Field in Chemistry (Grades 7-12) (p. 492)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Chemistry (CHEM)

### CHEM 1141. General Chemistry Laboratory I.

First of two laboratory courses in general chemistry for science-related majors. Course introduces the students to the basics of experimental measurements, including density, separation techniques, formula determinations, titrations, thermodynamics, gas laws, and descriptive chemistry. Prerequisite or Co-requisite: CHEM 1341, CHEM 1335, or CHEM 1310

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1111

### CHEM 1142. General Chemistry Laboratory II.

Second of two laboratory courses in general chemistry. Laboratory techniques are emphasized, and applied to both qualitative and quantitative analysis. Prerequisites: CHEM 1341 and CHEM 1141. Prerequisite or Co-requisite: CHEM 1342

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1112

### CHEM 1310. Introductory Chemistry for Non-Science Majors.

A one semester principles course for students in non-science related majors. Course covers the major concepts of chemistry and the role of chemistry in contemporary society. Students will not receive credit for both CHEM 1310 and CHEM 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1305

### CHEM 1335. Engineering Chemistry.

This one semester lecture course is tailored to engineering students. Topics include stoichiometry, gases, chemical bonding and structure, periodic trends, materials, energy, kinetics, equilibrium, electrochemistry and nuclear chemistry. Course is a stand-alone course and does not serve as a prerequisite to any courses currently requiring CHEM 1341 as a prerequisite. Restricted to Electrical Engineering, Construction Science and Management, Concrete Industry Management, and Technology Management majors. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CHEM 1341. General Chemistry I.

Initial lecture course in general chemistry for science-related majors, covering atomic and molecular structure, bonding, states of matter, solutions, and descriptive chemistry. Students will not receive credit for both CHEM 1310 and CHEM 1341. Concurrent registration in CHEM 1141 is recommended. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1311

**CHEM 1342. General Chemistry II.**

Second of two lecture courses in general chemistry for science-related majors, covering equilibrium processes, acid-base chemistry, and kinetics, and electrochemistry. A basic knowledge of algebra is needed. Concurrent enrollment in CHEM 1142 is recommended. Prerequisite: CHEM 1341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1312

**CHEM 1430. Chemistry for Non-Science Majors.**

A one semester course which surveys organic and biochemistry and may include petro-chemistry, nuclear chemistry, synthetic and natural polymers. Prerequisite: CHEM 1310 or CHEM 1341

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1407

**CHEM 2130. Laboratory Technique in Organic Chemistry.**

An optional laboratory to accompany CHEM 2330, covers experimental techniques of preparation, purification, and determination of physical and chemical properties of organic compounds. Prerequisites: CHEM 1342 and CHEM 1142. Co-requisite: CHEM 2330

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 2141. Organic Chemistry Laboratory I.**

This laboratory introduces the student to the general techniques of organic chemistry. Prerequisites: CHEM 1342 with a grade of "C" or higher, CHEM 1142. Prerequisite or Co-requisite: CHEM 2341

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2123

**CHEM 2142. Organic Chemistry Laboratory II.**

This laboratory involves the study of typical organic reactions. Prerequisites: CHEM 2341 with a grade of "C" or higher, CHEM 2141. Prerequisite or Co-requisite: CHEM 2342

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2125

**CHEM 2150. Biochemistry & Metabolism Lab.**

An optional laboratory to accompany CHEM 2350. This laboratory examines the physical properties and chemistry of carbohydrates, amino acids, proteins, lipids and nucleotides. Course is designed for students majoring in nutrition, clinical laboratory science and agriculture. Prerequisites: CHEM 2330/CHEM 2130 or CHEM 2342/CHEM 2142. Co-requisite: CHEM 2350

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 2330. Fundamentals of Organic Chemistry.**

A one-semester course which covers nomenclature, structure and reactions of organic compounds with an introduction to bioorganic molecules. Course is designed for students majoring in nutrition, clinical laboratory sciences and agriculture. Prerequisites: CHEM 1342 and CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 2341. Organic Chemistry I.**

This course covers the nomenclature, reactions and reaction mechanisms of the hydrocarbons and the alkyl halides. Prerequisites: CHEM 1342 with a grade of "C" or higher. Pre- or Co-requisite: CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2323

**CHEM 2342. Organic Chemistry II.**

This course covers the nomenclature, reactions and reaction mechanisms of the major functional groups. Prerequisite: CHEM 2341 with a grade of "C" or higher. Prerequisite or Co-requisite: CHEM 2141

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2325

**CHEM 2350. Biochemistry & Metabolism.**

A one-semester study of carbohydrate, proteins, lipids and nucleotides which presents both structure and intermediary metabolism along with an introduction to the function of enzymes and coenzymes. Course is designed for students majoring in nutrition, clinical laboratory science and agriculture. Prerequisites: CHEM 2330/CHEM 2130 or CHEM 2342/CHEM 2142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3245. Physical Chemistry Laboratory.**

Experiments illustrating principles and methods of physical chemistry are performed. Written reports on the experiments are prepared. Prerequisites: CHEM 3330 with a "C" or better, and CHEM 3410.

Prerequisite or Co-requisite: CHEM 3340. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 3275. Biochemical Techniques.**

Course introduces biochemistry majors to techniques in analytical and physical biochemistry. Experiments reinforce fundamental concepts and utilize modern instrumentation. Experimental design, interpretation of results, and data reporting will be emphasized. Prior completion or concurrent enrollment in BIO 2400 is strongly recommended.

Prerequisites: CHEM 3375 with a grade of "C" or higher. Co-requisite: CHEM 3380. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 3276. Experimental Biochemistry.**

Course introduces biochemistry minors to the fundamental techniques used in modern biochemistry. Experiments use the essential techniques employed in the study of proteins, enzymes and nucleic acids with emphasis on the use of modern instrumentation and the manipulation and analysis of experimental data. Prerequisites: CHEM 3375 or CHEM 4375 with a grade of "C" or higher

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 3330. Physical Chemistry I.**

The course covers principles of thermodynamics and thermochemistry, phase equilibria, electrochemistry and elementary kinetics including rate laws and mechanisms. Prerequisites: CHEM 1142; CHEM 1342 and MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3340. Physical Chemistry II.**

The course covers kinetics, quantum mechanics, spectroscopy, and other selected topics. Prerequisites: CHEM 3330 with a C or better; MATH 2472 with a "C" or better; and PHYS 2425 with a grade of "C" or higher

**3 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3341. Descriptive Inorganic Chemistry.**

An analysis of atomic, molecular, and solid state bonding and structure with an emphasis on coordination compounds and bioinorganic chemistry. Representative compounds and reactions of the elements will be surveyed. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3375. Principles of Biochemistry.**

Course provides biochemistry majors and minors with a rigorous introduction to biochemistry. Topics include the chemical function and structure of proteins, nucleic acids, lipids and carbohydrates; enzyme mechanisms, kinetics and regulation. Prior completion or concurrent enrollment in BIO 2450 is strongly recommended. Prerequisites: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3380. Analytical Biochemistry.**

This course is designed to acquaint the student with the chemical and physical principles of modern biochemical methods. Emphasis is placed upon the application of the methods to current problems in biochemistry and molecular biology and the interpretation of data. Prerequisite: CHEM 3375 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3390. Physical Chemistry for Biochemists.**

A study of the theories and laws of physical chemistry as it relates to biochemistry. The topics covered include ideal and real gases, classical thermodynamics, reaction kinetics, phase equilibria, electrochemistry, quantum mechanics, spectroscopy and statistical mechanics. Prerequisite: CHEM 3375 and MATH 2472 with a 'C' or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3410. Quantitative Analysis.**

Course covers the general theory and practice of typical methods of gravimetric and volumetric analysis, satisfies the quantitative analysis requirements for chemistry majors, minors, pre-medical and pharmacy students. Prerequisites: CHEM 1342 with a grade of "C" or higher, CHEM 1142

**4 Credit Hours. 3 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 4231. Advanced Laboratory I.**

An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of organic and inorganic materials. Prerequisites: CHEM 3245, CHEM 3340, CHEM 3410. Prerequisite or Co-requisite: CHEM 4331. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4241. Advanced Laboratory II.**

An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of inorganic and organic materials. Prerequisites: CHEM 4331, CHEM 4231. Prerequisite or Co-requisite: CHEM 4341. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4282. Advanced Biochemistry Research Laboratory.**

The second of two laboratory courses providing instruction in the modern techniques of biochemistry. Students will perform independent research projects involving isolation, manipulation and characterization of biomolecules. Results of these experiments and the scientific literature investigations will be used to prepare formal written reports and oral presentations. Prerequisite: CHEM 4481. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4295. Laboratory Development and Practice.**

This course develops the laboratory instructional abilities of students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments. Prerequisite: Junior standing and an overall GPA of 2.5 or higher

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 4299. Undergraduate Research.**

This course is available to undergraduate chemistry or biochemistry majors only. It may be repeated for credit but a maximum of four semester hours from this course are applicable toward advanced chemistry electives. Prerequisite: Permission of department

**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**CHEM 4310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined. Prerequisites: CHEM 2342 and CHEM 2350 or CHEM 3375 or CHEM 4375 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4331. Instrumental Analysis.**

The theory and methodology associated with the quantitative analysis of materials, i.e., electronics, spectroscopy, electrochemistry and chromatography are presented. Prerequisite: CHEM 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4333. Spectroscopy.**

The study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4341. Advanced Inorganic Chemistry.**

This course will use group theory analysis to predict vibrational spectra and bonding in molecules, including metal complexes. Numerous approaches (acid/base, redox, etc.) will be employed to rationalize the products of inorganic and organometallic reactions. The materials properties of solids and nanomaterials will also be discussed.

Prerequisites: CHEM 3341 and CHEM 4331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4350. Modern Molecular Modeling.**

A study of the application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, forcefield based molecular modeling, molecular energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction and mesoscale modeling.

Prerequisite: CHEM 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4351. Introduction to Polymers.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4360. Molecular Biology.**

This course provides Biochemistry majors and minors with advanced knowledge of the field of molecular biochemistry. Topics include gene expression (transcription and translation of genes in bacteria and higher organisms), post-translational modification of proteins, chromosomal DNA replication, cell cycle checkpoint controls, DNA damage and repair, as well as theories of cancer and aging. Prerequisite: CHEM 3375 or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4371. Directed Study.**

Independent study on a particular subject area in chemistry or biochemistry. The specific study area, resource material, goals, and achievements will be approved by the instructor. Prerequisites: CHEM 2342 with a C or better, and permission of department

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CHEM 4375. Biochemistry.**

Course provides Chemistry majors and minors with an overview of biochemistry topics. Topics include a description of the structure and function of proteins, enzymes, nucleic acids, lipids and carbohydrates. Students may not receive credit for both CHEM 3375 and CHEM 4375. Prerequisites CHEM 2342 with C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4385. Metabolism.**

A study of the biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Prerequisite: CHEM 3375 or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4481. Advanced Biochemistry Lab I.**

The first of two laboratory courses providing instruction in the modern techniques of biochemistry. Experiments are performed on the isolation, manipulation and characterization of DNA, RNA and proteins. Students will prepare formal written reports and oral presentations. Prerequisites: CHEM 3275 with a grade of "C" or higher; CHEM 3380. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

# Bachelor of Science (B.S.) Major in Biochemistry

**Minimum required: 120 semester hours**

## General Information

- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	
First Semester Hours	Second Semester Hours
CHEM 1141	1 CHEM 1142
CHEM 1341	3 CHEM 1342
BIO 1130	4 BIO 1131
& BIO 1330	& BIO 1331
US 1100	1 MATH 2471
ENG 1310	3 ENG 1320
PHIL 1305 or 1320	3
15	15

Sophomore	
First Semester Hours	Second Semester Hours
CHEM 2141	1 CHEM 2142
CHEM 2341	3 CHEM 2342
MATH 2472	4 BIO 2450
PHYS 1430	4 PHYS 2425
English Literature <sup>1</sup>	3 COMM 1310
15	15

Junior	
First Semester Hours	Second Semester Hours
CHEM 3375	3 CHEM 3380
CHEM 3390	3 CHEM 3275
BIO 2400	4 HIST 1320
HIST 1310	3 POSI 2320
POSI 2310	3 Social and Behavioral Sciences
16	14

Senior	
First Semester Hours	Second Semester Hours
CHEM 4360	3 CHEM 4385
CHEM 4481	4 CHEM 4282
Minor Advanced Elective <sup>2,3</sup>	3 Minor Advanced Elective <sup>2,3</sup>
Minor Advanced Elective <sup>2,3</sup>	3 Select one of the following:
Advanced Elective <sup>2,3,4</sup>	3 ART 2313
	DAN 2313
	MU 2313
	TH 2313
	Advanced Elective <sup>2,3,4</sup>
16	14

Total Hours: 120

<sup>1</sup> See the Core Curriculum section of this catalog for general education core curriculum requirements.

<sup>2</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.

<sup>3</sup> Minor and electives should be chosen in consultation with the departmental or academic advisor. Recommended minor is biology.

<sup>4</sup> One semester of CHEM 4299 is highly recommended and CHEM 3341 (fall only course) is required for the optional certification of the degree as approved by the American Chemical Society.

# Bachelor of Science (B.S.) Major in Chemistry

**Minimum required: 120 semester hours**

## General Requirement

- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman	
First Semester Hours	Second Semester Hours
CHEM 1141	1 CHEM 1142
CHEM 1341	3 CHEM 1342
US 1100	1 ENG 1320
COMM 1310	3 HIST 1310
ENG 1310	3 MATH 2471
POSI 2310	3
14	14

Sophomore	
First Semester Hours	Second Semester Hours
CHEM 2141	1 CHEM 2142
CHEM 2341	3 CHEM 2342
MATH 2472	4 PHYS 2425
PHYS 1430	4 Select one of the following:
English Literature <sup>1</sup>	3 ART 2313
	DAN 2313
	MU 2313
	TH 2313
	PHIL 1305 or 1320
	Electives <sup>2,3</sup>
15	17

Junior	
First Semester Hours	Second Semester Hours
CHEM 3330	3 CHEM 3340
CHEM 3410	4 CHEM 3245
HIST 1320	3 POSI 2320
Elective <sup>2,3</sup>	3 Social and Behavioral Sciences <sup>1</sup>
Minor Advanced Elective <sup>2,3</sup>	3 Minor Advanced Elective <sup>2,3</sup>
16	14

Senior	
First Semester Hours	Second Semester Hours
CHEM 3341	3 CHEM 4341
CHEM 4331	3 CHEM 4241



CHEM 4231	2 CHEM Advanced Elective <sup>4</sup>	3-4
CHEM 4375	3 Electives <sup>2,3</sup>	3
Minor Advanced Elective <sup>2,3</sup>	3 Electives <sup>2,3</sup>	2-3
Electives <sup>2,3</sup>	2	
	16	14

Total Hours: 120

- <sup>1</sup> See the Core Curriculum section of this catalog for general education core curriculum requirements.
- <sup>2</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- <sup>3</sup> Students should consult a departmental or academic advisor before selecting a minor.
- <sup>4</sup> CHEM 4299 must be taken twice for credit and is required for certification of the degree as approved by the American Chemical Society.

## Bachelor of Science (B.S.) Major in Chemistry (Teacher Certification in Chemistry, Grades 7-12)

Minimum required: 120 semester hours

### General Requirements

- CHEM 4299 must be taken twice for credit and is required for certification of the degree as approved by the American Chemical Society.
- A minor in Secondary Education is required.
- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman					
First Semester	Hours	Second Semester	Hours	Summer	Hours
CHEM 1141	1	CHEM 1142	1	Summer I:	
CHEM 1341	3	CHEM 1342	3	CHEM 2141	1
MATH 2471	4	MATH 2472	4	CHEM 2341	3
US 1100	1	PHYS 1430	4	Summer II:	
ENG 1310	3	ENG 1320	3	CHEM 2142	1
PHIL 1305 or 1320	3			CHEM 2342	3
	15		15		8

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
CHEM 3330	3	CHEM 3340	3	Summer I:	
CHEM 3410	4	CHEM 3245	2	HIST 1310	3
PHYS 2425	4	Select one of the following:	3	POSI 2310	3
English Literature <sup>1</sup>	3	ART 2313		Summer II:	
		DAN 2313		HIST 1320	3
		MU 2313		POSI 2320	3
		TH 2313			

	COMM 131C	3	
	Electives <sup>2,3,4</sup>	2	
	14	13	12

Junior

First Semester	Hours	Second Semester	Hours
CHEM 3341	3	CI 4332	3
CHEM 4331	3	CHEM 4341	3
CHEM 4231	2	CHEM 4241	2
CHEM 4375	3	CI 3325	3
CHEM 4295	2	Electives <sup>2,3,4</sup>	1
	13		12

Senior

First Semester	Hours	Second Semester	Hours
Social and Behavioral Sciences <sup>1</sup>	3	EDST 4681	6
CI 4370	3		
CI 4343	3		
RDG 3323	3		
	12		6

Total Hours: 120

- <sup>1</sup> See the Academic Services section of this catalog for general education core curriculum requirements.
- <sup>2</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- <sup>3</sup> If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- <sup>4</sup> Minor and electives should be chosen in consultation with the departmental or academic advisor.

## Bachelor of Science (B.S.) Major in Chemistry (Teacher Certification in Physical Science, Grades 6-12)

Minimum required: 131 semester hours

### General Information

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- CHEM 4299 must be taken twice for credit and is required for certification of the degree as approved by the American Chemical Society.
- Minors in Secondary Education and in Physics are required for this degree program.

5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

First Semester	Hours	Second Semester	Hours	Summer	Freshman Hours
CHEM 1141	1	CHEM 1142	1	Summer I:	
CHEM 1341	3	CHEM 1342	3	CHEM 2141	1
MATH 2471	4	MATH 2472	4	CHEM 2341	3
US 1100	1	PHYS 1430	4	Summer II:	
ENG 1310	3	ENG 1320	3	CHEM 2142	1
PHIL 1305 or 1320	3			CHEM 2342	3
	15		15		8

First Semester	Hours	Second Semester	Hours	Summer	Sophomore Hours
CHEM 3330	3	CHEM 3340	3	Summer I:	
CHEM 3410	4	CHEM 3245	2	HIST 1310	3
PHYS 2425	4	PHYS 2435	4	POSI 2310	3
Select one of the following:	3	Social and Behavioral Sciences <sup>1</sup>	3	Summer II:	
ART 2313		COMM 1310	3	HIST 1320	3
DAN 2311				POSI 2320	3
MU 2313					
TH 2313					
	14		15		12

First Semester	Hours	Second Semester	Hours	Summer	Junior Hours
CHEM 3341	3	CHEM 4341	3	Summer I:	
CHEM 4331	3	CHEM 4241	2	English Literature <sup>1</sup>	3
CHEM 4231	2	CI 3325	3	CHEM 4375	3
CI 4332	3	PHYS 3411	4		
PHYS 3312	3	PHYS 4320 or 4321	3		
	14		15		6

First Semester	Hours	Second Semester	Hours	Senior Hours
CHEM 4295	2	EDST 4681	6	
CI 4370	3			
CI 4343	3			
RDG 3323	3			
	11		6	

Total Hours: 131

<sup>1</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

## Bachelor of Science and Master of Science (B.S./M.S.) Major in Biochemistry (Early-Entry Combined Program)

**Minimum required: 152 semester hours**

### General Requirements

- If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- Students completing 124 semester hours will be eligible for graduation with a B.S. degree. The M.S. degree will be awarded only after the completion of all required courses and the successful defense of a research thesis.
- The graduate-level courses taken in the senior year are CHEM 5110, CHEM 5395, CHEM 5399A, and a 3-hour elective approved by the graduate advisor. After admission to The Graduate College, 20 additional graduate hours (including a research thesis) and successful completion of a comprehensive examination is required for the M.S. degree.
- Students may be admitted to the M.S. program without entrance qualification exams if they have a 3.00 GPA or higher in all chemistry and biochemistry courses, have completed CHEM 3275, CHEM 3380, and two semesters of CHEM 4299, have taken the Graduate Record Exam, and have been accepted by a graduate thesis advisor. Applicants will be evaluated by the Graduate Evaluation Committee to determine their suitability to enter the program. The application process is the same as for other graduate applicants to The Graduate College. Graduate status is provisional until the B.S. degree is awarded. The B.S. degree will be certified as approved by the American Chemical Society for students completing CHEM 3341 (fall only course) as an advanced elective.

First Semester	Hours	Second Semester	Hours	Freshman
CHEM 1141	1	CHEM 1142	1	
CHEM 1341	3	CHEM 1342	3	
BIO 1130 & BIO 1330	4	BIO 1131 & BIO 1331	4	
US 1100	1	MATH 2471	4	
ENG 1310	3	ENG 1320	3	
PHIL 1305 or 1320	3			
	15		15	

First Semester	Hours	Second Semester	Hours	Sophomore
CHEM 2141	1	CHEM 2142	1	
CHEM 2341	3	CHEM 2342	3	
MATH 2472	4	BIO 2450	4	
PHYS 1430	4	PHYS 2425	4	

English Literature <sup>1</sup>	3	COMM 1310	3
	15		15

First Semester	Hours	Second Semester	Hours	Summer	Junior Hours
CHEM 3375	3	CHEM 3390	3	Summer I:	
CHEM 3390	3	CHEM 3380	3	HIST 1310	3
CHEM 4299	2	CHEM 3275	2	POSI 2310	3
BIO 2400	4	CHEM 4299	2	Summer II:	
Minor	4	Minor	3	HIST 1320	3
Advanced Elective <sup>2,3</sup>		Advanced Elective <sup>2,3</sup>			
		Social and Behavioral Sciences <sup>1</sup>		POSI 2320	3
	16		13		12

Senior

First Semester	Hours	Second Semester	Hours
CHEM 4360	3	CHEM 4385	3
CHEM 4481	4	CHEM 4282	2
Minor	3	Select	3
Advanced Elective <sup>2,3</sup>		one of the following:	
Advanced Elective	3	ART 2313	
CHEM 5110	1	DAN 2313	
CHEM 5395	3	MU 2313	
		TH 2313	
		CHEM 5399	3
		Graduate level CHEM Elective	3
	17		14

Fifth Year

First Semester	Hours	Second Semester	Hours
CHEM 5110	1	CHEM 5110	1
Graduate level CHEM Electives	6	Graduate level CHEM electives	6
CHEM 5370	3	CHEM 5399B	3
	10		10

Total Hours: 152

<sup>1</sup> See the Core Curriculum section of this catalog for general education core curriculum requirements.

<sup>2</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required for the B.S. degree. An advanced course is one that is numbered above 3000 and below 5000

<sup>3</sup> Students should consult a departmental or academic advisor before selecting an undergraduate minor. A minor in biology is recommended.

## Bachelor of Science and Master of Science (B.S./M.S.) Major in Chemistry (Early-Entry Combined program)

### Minimum required: 150 semester hours

#### General Requirements

- The graduate-level courses taken in the senior year are CHEM 5110, CHEM 5395, CHEM 5399A, and a 3-hour elective approved by the graduate advisor. After admission to The Graduate College, 20 additional graduate hours (including a research thesis) and successful completion of a comprehensive examination is required for the M.S. degree
- Students completing 120 semester hours will be eligible for graduation with a B.S. degree. The M.S. degree will be awarded only after the completion of all required courses and the successful defense of a research thesis.
- Students may be admitted to the M.S. program without entrance qualification exams if they have a 3.00 GPA or higher in all CHEM courses, have completed two semesters of CHEM 4299, have taken the Graduate Record Exam, and have been accepted by a graduate thesis advisor. Applicants will be evaluated by the Graduate Evaluation Committee to determine their suitability to enter the program. The application process is the same as for other graduate applicants to The Graduate College. Graduate status is provisional until the B.S. degree is awarded. The B.S. degree will be certified as approved by the American Chemical Society.

Freshman

First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
US 1100	1	MATH 2471	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
PHIL 1305 or 1320	3		
	14		14

Sophomore

First Semester	Hours	Second Semester	Hours
CHEM 2141	1	CHEM 2142	1
CHEM 2341	3	CHEM 2342	3
MATH 2472	4	PHYS 2425	4
PHYS 1430	4	Select	3
		one of the following:	
English Literature <sup>1</sup>	3	ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
		COMM 1310	3

		Electives <sup>2,3</sup>			
		2			
15		16			
				Junior	
First Semester	Hours	Second Semester	Hours	Summer	Hours
CHEM 3330	3	CHEM 3340	3	Summer I:	
CHEM 3410	4	CHEM 3245	2	HIST 1320	3
CHEM 4299	2	CHEM 4299	2	Electives <sup>2,3</sup>	3
Electives <sup>2,3</sup>	3	Social and Behavioral Sciences <sup>1</sup>	3	Summer II:	
Minor	3	Minor	3	POSI 2320	3
Advanced Elective <sup>2,4</sup>		Advanced Elective <sup>2,4</sup>			
		Electives		2 Electives <sup>2,3</sup>	
15		15		12	

## Senior

First Semester	Hours	Second Semester	Hours
CHEM 3341	3	CHEM 4341	3
CHEM 4331	3	CHEM 4241	2
CHEM 4231	2	CHEM 5399A	3
CHEM 4375	3	Graduate Level CHEM Elective	3
CHEM 5110	1	Minor Advanced Elective	3
CHEM 5395	3		
15		14	

## Fifth Year

First Semester	Hours	Second Semester	Hours
CHEM 5110	1	CHEM 5110	1
Graduate level CHEM Electives	6	Graduate level CHEM Electives	6
CHEM 5370	3	CHEM 5399B	3
10		10	

Total Hours: 150

<sup>1</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

<sup>2</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required for the B.S. degree. An advanced course is one that is numbered above 3000 and below 5000.

<sup>3</sup> If two years of the same foreign language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<sup>4</sup> Students should consult a departmental or academic advisor before selecting an undergraduate minor or electives.

## Minor in Biochemistry

A minor in Biochemistry requires:

CHEM 1141 & CHEM 1341	General Chemistry Laboratory I and General Chemistry I	4
CHEM 1142 & CHEM 1342	General Chemistry Laboratory II and General Chemistry II	4
CHEM 2141 & CHEM 2341	Organic Chemistry Laboratory I and Organic Chemistry I	4
CHEM 2142 & CHEM 2342	Organic Chemistry Laboratory II and Organic Chemistry II	4
CHEM 3276	Experimental Biochemistry	2
CHEM 3375 or CHEM 4375	Principles of Biochemistry Biochemistry	3
CHEM 4360 or CHEM 4385	Molecular Biology Metabolism	3

Total Hours 24

## Minor in Chemistry

A minor in Chemistry requires:

CHEM 1141 & CHEM 1341	General Chemistry Laboratory I and General Chemistry I	4
CHEM 1142 & CHEM 1342	General Chemistry Laboratory II and General Chemistry II	4
CHEM 2141 & CHEM 2341	Organic Chemistry Laboratory I and Organic Chemistry I	4
CHEM 2142 & CHEM 2342	Organic Chemistry Laboratory II and Organic Chemistry II	4
CHEM 3410	Quantitative Analysis	4
	One advanced course with a minimum of 3 advanced hours, not to include CHEM 4299	3

Total Hours 23

## Second Teaching Field in Chemistry (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Chemistry, the requirements are:

CHEM 1341 & CHEM 1141	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1342 & CHEM 1142	General Chemistry II and General Chemistry Laboratory II	4
CHEM 2341 & CHEM 2141	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 2342 & CHEM 2142	Organic Chemistry II and Organic Chemistry Laboratory II	4
CHEM 3410	Quantitative Analysis	4
CHEM 4295	Laboratory Development and Practice	2
CHEM 4375	Biochemistry	3

Total Hours 25

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Department of Computer Science

Comal Building Room 211  
PH: 512.245.3409 FAX: 512.245.8750  
www.cs.txstate.edu (<http://www.cs.txstate.edu>)

### Mission Statement

The Department of Computer Science mission is to advance the knowledge of computer science and technology through education, research, and service for the betterment of industry, government, and society.

### Vision Statement

The department seeks to become a competitive doctoral-granting department and to expand its depth and breadth in the research and study of applied computing.

### Computer Science Goals

1. Graduating students with strong technical backgrounds and communication skills.
2. Graduating students who understand the values and requirements of responsible professionalism and lifelong learning.
3. Building a sustainable research program.
4. Developing international visibility for our research.
5. Providing quality service to the university, the profession, and the community.

### Overview

The Department of Computer Science offers two degree options for students - a Bachelor of Arts (B.A.) and a Bachelor of Science (B.S.). The Bachelor of Science degree program in Computer Science is accredited by ABET, Inc.

The department offers courses in computer architecture, data structures and algorithms, automata theory, compilers, operating system, object-oriented design and implementation, Web programming, software engineering, computer graphics, computer networks, distributed systems, computer security, digital forensics, database design, data mining, machine learning, human computer interaction, social computing, artificial intelligence, and several programming languages including C, C++, Java, Assembly, LISP, Perl, PHP, and JavaScript.

Computer Science graduates can further their studies in graduate schools or seek employment in industry, such as software development; computer applications in the petroleum, aerospace, and chemical industries; and secondary school teaching.

### Teacher Certification

Students may pursue a B.A. or B.S. degree with teacher certification in Computer Science for Texas public schools (grades 8-12). Students follow the curriculum sequence outlined by their major department or college. Undergraduates interested in certification are strongly encouraged to see an academic advisor early in their undergraduate program. Students seeking teacher certification must complete 21 hours of the professional sequence courses under the College of Education:

#### Education Core

CI 4332	Secondary Teaching: Curriculum and Technology <sup>1</sup>	3
CI 3325	Adolescent Growth and Development <sup>1</sup>	3

#### Field-Based Block

CI 4343	Instructional Strategies for the Secondary Teacher	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
RDG 3323	Teaching Reading in the Content Areas	3

#### Student Teaching

EDST 4681	Student Teaching 8-12	6
Total Hours		21

<sup>1</sup> Please note that students must take CI 4332 and CI 3325 prior to participating in a field-based block.

For information about admission requirements to the teacher certification program refer to the Office of Educator Preparation (OEP) (p. 204) section in this catalog. Graduate or post-baccalaureate students should also contact the OEP for further information. The three types of students the OEP provides services to are undergraduate students seeking certification, graduate students seeking certification, and post-baccalaureate students seeking certification only. Admission to teacher education is required for students who want to be certified to teach in Texas accredited schools.

### Bachelor of Arts (B.A.)

- Major in Computer Science (p. 497)
- Major in Computer Science (Teacher Certification in Computer Science, Grades 8-12) (p. 498)

### Bachelor of Science (B.S.)

- Major in Computer Science (p. 499)
- Major in Computer Science (Computer Engineering Concentration) (p. 500)
- Major in Computer Science (Teacher Certification in Computer Science, Grades 8-12) (p. 502)

### Minor

- Computer Science (p. 503)
- Second Teaching Field in Computer Science (Grades 8-12) (p. 503)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

### Courses in Computer Science (CS)

#### CS 1308. Computer Literacy and the Internet.

A study of the uses of computers and their effects on society. Text processing, spreadsheets, databases, and Web programming. Does not count for computer science credit towards a minor, a BS, or a BA in computer science

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** COSC 1300



**CS 1319. Fundamentals of Computer Science.**

Provides fundamental knowledge of the six layers of computer science as per the ACM CS0 curriculum. The information, hardware, programming, operating system, applications, and communications layers are presented plus appropriate open computer laboratory exercises. Does not count for computer science credit towards a minor, BS, or BA in computer science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 1336

**CS 1428. Foundations of Computer Science I.**

Introductory course for computer science majors, minors and others desiring technical introduction to computer science. Contains overview of history and structure of the digital computer, including binary data representation. Problem solving, algorithm development, structured programming, good coding style, and control structures of C++ are emphasized. Prerequisite or co-requisite: MATH 1315

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** COSC 1437

**CS 2308. Foundations of Computer Science II.**

The course is an introduction to Abstract Data Types (ADTs) including lists, stacks, and queues. Searching and sorting, pointers and dynamic memory allocation, and simple classes and objects also will be covered. The course is a continuation of CS 1428. Prerequisite: CS 1428 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 2336

**CS 2315. Computer Ethics.**

This course is primarily for computer science majors, focusing on the ethical codes of the professional societies, the philosophical bases of ethical decision-making, and the examination of several contemporary case studies. Prerequisites: CS 1428, ENG 1310, COMM 1310, and PHIL 1305 or PHIL 1320 with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 2318. Assembly Language.**

A course covering assembly language programming, including instruction sets, addressing modes, instruction formats, looping, logic, data representation, subroutines and recursion; and the interface between hardware and software. Prerequisites: MATH 2358 and CS 2308 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 2325

**CS 2420. Digital Logic.**

An introduction to fundamental computer technologies, including Boolean logic design, logic circuits and devices, and basic computer hardware. A laboratory providing hands-on experience with electricity, combinational and sequential digital circuits, and computer hardware. Prerequisite: CS 1428 with a grade of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CS 3320. Internet Software Development.**

A course providing foundations for the construction and design of static and dynamic Web pages with database applications. This will include server-side and client-side software development. Prerequisite: CS 2308 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3339. Computer Architecture.**

Use of fundamental hardware components. Topics include ALU's, single and multiple cycle datapath and control, RISC vs. CISC, pipelining, caches, I/O, virtual memory and related performance issues. Prerequisite: CS 2318 or EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3354. Object-Oriented Design and Programming.**

The course covers object-oriented design principles and programming for students with prior programming experience. The topics include inheritance and polymorphism, object-oriented design process, UML diagrams, design patterns, exception handling and multithreading. Students will design and implement programs in Java. Cannot receive credit if the student has taken CS 4354. Prerequisite: CS 2308 with a grade of "C" or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3358. Data Structures and Algorithms.**

This is a course that covers classic data structures and the analysis of algorithms. Prerequisites: CS 2308 and MATH 2358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3369. Embedded Computer Systems.**

This course studies the architecture of embedded systems, micro-controllers, their peripherals, languages, and operating systems and the special techniques required to use them. Prerequisite: CS 2318 or EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3378. Theory of Automata.**

An introduction to automata theory, computability, and formal languages. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3398. Software Engineering.**

The study of software design, implementation, and validation techniques through team projects. Structured analysis, programming style, and project documentation are emphasized in large software projects. Prerequisites: (CS 2315 or EE 2400) and CS 3358 with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 4100. Computer Science Internship.**

Provides on-the-job training supervised by computer scientists in industry internship programs approved by the department. Prerequisite: CS majors and minors only

**1 Credit Hour. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 4298. Undergraduate Research I.**

Supervised individual research project in a mentor-student relationship with a computer science faculty member. Cannot be given degree credit until the satisfactory completion of CS 4299. Prerequisites: Junior standing; major GPA of 3.00; departmental approval

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**CS 4299. Undergraduate Research II.**

Supervised individual research projects in a mentor-student relationship with a computer science faculty member. Prerequisites: CS 4298 and departmental approval

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CS 4310. Computer Networks.**

A survey of network architectures and their components. Emphasis will be on media access, network and transport layer protocols. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4315. Introduction to Data Mining.**

This course covers fundamental concepts and techniques in data mining and information retrieval. Data mining topics include classification, cluster analysis and pattern mining. Information retrieval topics include Boolean retrieval, vector space model, and Web search. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4318. Compiler Construction.**

This course investigates theoretical and practical issues in the design and construction of modern compilers. Topics covered include lexical and syntactic analysis, syntax-directed translation, type checking, intermediate representation, code generation, and runtime systems. A major portion of the course involves implementing a compiler from scratch for a C-like programming language. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4326. Human Factors of Computer Systems.**

Principles and methods in human factors and ergonomics applied to the design and use of computer systems. Prerequisite: CS 3358 with a grade of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 4328. Operating Systems.**

This course covers the principles of operating systems, algorithms for CPU scheduling, memory management, cooperating sequential processes and device management. Prerequisites: CS 3339 and CS 3358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4332. Introduction to Database Systems.**

Introduction to database concepts, data models, file structures, query languages, database management systems. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4346. Introduction to Artificial Intelligence.**

An introduction to the basic concepts of artificial intelligence; search techniques, knowledge representation, problem solving. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4350. Unix Systems Programming.**

Fundamentals of Unix operating systems, Unix file system and environment, C memory allocation, development tools, processes and signals, threads, device drivers, and programming for security. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4368. Survey of Computer Languages.**

A survey of computer languages. Criteria for choosing languages to be covered include history, important development paradigms and environments, and language implementations. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4371. Computer System Security.**

Course covers practical aspects of computer system security including managing and producing code for secure systems. Theory, such as cryptography, is introduced as needed. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4372. Introduction to Digital Multimedia.**

The course covers concepts, problems and techniques in digital multimedia. Topics include digital representation and data compression of text, speech, audio, natural and synthetic images, and video, as well as multimedia applications, transmission, and standards. In addition, the course introduces perceptual aspects of multimedia signals and sources. Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4378A. Introduction to Digital Forensics.**

This course is an introduction to digital forensics that describes the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices, and networks. Hands-on experience will be acquired through projects. Prerequisite: CS 4350 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378V. Introduction to Machine Learning.**

Provides systematic introduction to machine learning, covering basic theoretical as well as practical aspects of the use of machine learning methods. Topics include learning theory, learning methods, recent learning models, etc. Application examples include multimedia information retrieval, text recognition, computer vision, etc. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378W. Introduction to Human Computer Interaction.**

Introduces HCI topics specifically highlighted by new input modalities such as eye-tracking. Considers new input modalities as new channels for data gathering including multimedia compression, interface design, usability evaluation, biometrics. Application of HCI as interdisciplinary research tool also will be discussed. Prerequisite: CS 3358 with grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378Z. Practical Game Development.**

Course teaches practical aspects of computer game design and implementation. Topics include graphics game engines, game physics, AI methods applied to games, and software architectures for computer games. Students will gain knowledge and skills needed for game development via team projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379A. Software Testing.**

The concepts used in a formal testing of safety critical and high-quality software applications are investigated. Topics include, but are not limited to, test design, static and dynamic testing tools, and formal testing documentation. Prerequisite: CS 3398 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379B. Introduction to Graphical User Interfaces.**

This course covers abstract and practical foundations of graphical user interface design, evaluation, and implementation. It discusses the fundamentals of computer graphics and interactive computer/human interfaces. The course includes a survey of usability measures, the major GUI standards, and GUI tools. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379Q. Introduction to Recommender Systems.**

This course covers the basic concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences. We will discuss how recommender systems are deployed in e-commerce sites, social networks, and many other online systems. Additionally, we will review current research in the field. Prerequisite: CS 3358 with a grade of "C" or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379Y. Introduction to Green Computing.**

Reducing energy consumption of mobile devices, cloud computing platforms, and supercomputers is a paramount but daunting problem. This course covers fundamental concepts and techniques in green computing, including a hardware energy efficiency roadmap; energy efficient software design, resource management, and storage solutions; and green data centers and mobile computing. Prerequisites: CS 3339 and CS 3358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4380. Parallel Programming.**

This course teaches practical aspects of parallel programming. The covered topics include multi-core processors and shared-memory programming, hardware accelerator programming, and distributed-memory machines and message-passing programming. The students will gain the knowledge and skills needed for developing parallel software by writing programs for a variety of parallel computers. Prerequisite: CS 3358 with a grade of "D" or higher; or instructor consent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4388. Computer Graphics.**

A study of the hardware and software used in graphic representation and interpretation of data. Prerequisites: CS 3358 with a grade of C or higher and familiarity with trigonometric functions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4395. Independent Study in Computer Science.**

Open to undergraduate students on an independent basis by arrangement with the faculty member concerned. Requires department chair approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**CS 4398. Software Engineering Project.**

Students undertake a software development project. They work in teams, developing requirements and designs which they will implement and test. Prerequisite: CS 3398 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

# Bachelor of Arts (B.A.) Major in Computer Science

**Minimum required: 120 semester hours**

## General Requirements

1. A minimum of 120 hours is required for graduation. Of those hours, 9 hours must be writing intensive and 36 hours must be advanced.
2. A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for additional information about general education core curriculum requirements.
3. In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
4. Computer Science majors must complete 37 hours of computer science including a CS project course from:
 

CS 4318	Compiler Construction	3
CS 4326	Human Factors of Computer Systems	3
CS 4371	Computer System Security	3
CS 4380	Parallel Programming	3
CS 4398	Software Engineering Project	3
5. The number of free electives a student will complete varies, depending on the number of hours needed to satisfy the 120 and/or the 36 advanced or 9 hours writing intensive requirements. Students should consult with the academic advisor before enrolling in any free elective courses to ensure that electives are needed.

		<b>Freshman</b>	
		<b>First Semester Hours</b>	<b>Second Semester Hours</b>
CS 1428		4 CS 2308	3
Mathematics Core select one of the following: <sup>1</sup>		3 MATH 2358 (BA Science)	3
MATH 1317		ENG 1320 (Communication Core)	3
MATH 1319		Language, Philosophy, and Culture Core select one of the following:	3
MATH 1329		PHIL 1305	
MATH 2321		PHIL 1320	
MATH 2417		Social and Behavioral Sciences Core <sup>2</sup>	3
MATH 2471			
US 1100	1		
ENG 1310 (Communication Core)	3		
COMM 1310 (Texas State Communication Core Option)	3		
		14	15

		<b>Sophomore</b>	
		<b>First Semester Hours</b>	<b>Second Semester Hours</b>
CS 2318		3 CS 2315	3
CS 3354		3 CS 3358	3

MATH 3398		3 Modern Language 1420 <sup>4</sup>	4
Life and Physical Sciences Core <sup>3</sup>		4 Life and Physical Sciences Core <sup>3</sup>	4
Modern Language 1410 <sup>4</sup>		4 Texas State Literature Core Option select one of the following:	3
		ENG 2310	
		ENG 2320	
		ENG 2330	
		ENG 2340	
		ENG 2359	
		ENG 2360	
		17	17

		<b>First Semester Hours</b>	<b>Second Semester Hours</b>	<b>Junior</b>
CS 3339		3 CS Advanced Elective		3
CS 3398		3 Modern Language 2320 (BA Language) <sup>4</sup>		3
BA Literature select one of the following: <sup>5</sup>		3 Minor <sup>6</sup>		3
ENG 2310		HIST 1310 (American History Core)		3
ENG 2320		POSI 2310 (Government/Political Science Core)		3
ENG 2330				
ENG 2340				
ENG 2359				
ENG 2360				
ENG 3303				
ENG 3311				
Modern Language 2310 (BA Language) <sup>4</sup>	3			
Minor <sup>6</sup>	3			
		15		15

		<b>First Semester Hours</b>	<b>Second Semester Hours</b>	<b>Senior</b>
CS Advanced Elective		3 CS Project select one of the following:		3
Creative Arts Core select one of the following:	3	CS 4318		
ART 2313		CS 4326		
DAN 2313		CS 4371		
MU 2313		CS 4380		
TH 2313		CS 4398		
HIST 1320 (American History Core)		3 CS Advanced Elective		3
Minor <sup>6</sup>	3	Minor <sup>6</sup>		6
POSI 2320 (Government/Political Science Core)	3			
		15		12

Total Hours: 120

<sup>1</sup> MATH 2417 or MATH 2471 may substitute for the MATH 1317, MATH 1319, MATH 1329, or MATH 2321 requirement.

- <sup>2</sup> Social and Behavioral Sciences Core select one of the following: ANTH 1312, ECO 2301, ECO 2314, GEO 1310, PFW 1301, PSY 1300, or SOCI 1310.
- <sup>3</sup> Computer Science majors must take eight hours (2 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141, and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. The eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.
- <sup>4</sup> Students pursuing the B.A. degree are required to complete 6 hours of modern language (2310 and 2320) in the same modern language. Most students will have to complete 1410 and 1420 as prerequisites before attempting 2310.
- <sup>5</sup> Students pursuing the B.A. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from ENG 2310, ENG 2320, ENG 2330, ENG 2340, ENG 2359, ENG 2360, ENG 3303 (Technical Writing), or ENG 3311 (Writing for the Computer Industry) to fulfill this requirement. ENG 3303 or ENG 3311 is recommended.
- <sup>6</sup> A minor is required, and it is recommended that it be chosen in consultation with the academic advisor.

ENG 3303	Technical Writing <sup>1</sup>	3
ENG 3311	Practices in Writing and Rhetoric <sup>1</sup>	3

- <sup>1</sup> ENG 3303 or ENG 3311 is recommended.
- 6. Computer Science majors must complete 37 hours of Computer Science including one CS project course from:
 

CS 4318	Compiler Construction	3
CS 4326	Human Factors of Computer Systems	3
CS 4371	Computer System Security	3
CS 4380	Parallel Programming	3
CS 4398	Software Engineering Project	3
  - 7. A minor is required. Students seeking teacher certification will automatically satisfy a minor in Secondary Education when they successfully complete the 21 hours of Professional Education sequence of courses under the College of Education:
 

CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6

# Bachelor of Arts (B.A.) Major in Computer Science (Teacher Certification in Computer Science, Grades 8-12)

**Minimum required: 126 semester hours**

## General Requirements

- 1. A minimum of 126 hours will be completed for students pursuing teacher certification. Of those hours, 9 hours must be writing intensive, and 36 hours must be advanced.
- 2. A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for additional information about general education core curriculum requirements.
- 3. In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
- 4. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
- 5. Students pursuing the B.A. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from:

ENG 2310	British Literature before 1785	3
ENG 2320	British Literature since 1785	3
ENG 2330	World Literature before 1600	3
ENG 2340	World Literature since 1600	3
ENG 2359	US Literature before 1865	3
ENG 2360	US Literature since 1865	3

Freshman

First Semester	Hours	Second Semester	Hours
CS 1428	4	CS 2308	3
Select one of the following: <sup>1</sup>	3	MATH 2358	3
MATH 1317		Life and Physical Sciences <sup>2</sup>	4
MATH 13		ENG 1320	3
MATH 1329		PHIL 1305 or 1320	3
MATH 23			
US 1100	1		
ENG 1310	3		
COMM 1310	3		
	14		16

Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
CS 2315	3	CS 3358	3	Summer I:	
CS 2318	3	CS 3339	3	Select one of the following (English Literature):	3
CS 3354	3	Modern Language 1420 <sup>3</sup>	4	ENG 2310	



MATH 3398	3 Life and Physical Sciences <sup>2</sup>	4	ENG 2320		
Modern Language 1410 <sup>3</sup>	4		ENG 2330		
			ENG 2340		
			ENG 2359		
			ENG 2360		
			HIST 1310	3	
			Summer II: Select one of the following:	3	
			ART 2310		
			DAN 2313		
			MU 2313		
			TH 2313		
			HIST 1320	3	
	16		14		12
					<b>Junior Hours</b>
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Summer</b>	<b>Hours</b>
CS 3398	3	CS Advanced Elective	3	Summer I:	
CS Advanced Elective	3	CS Advanced Elective	3	POSI 2310	3
Modern Language 2310	3	Modern Language 2320	3	Select one of the following (Social and Behavioral Sciences):	3
CI 3325	3	CI 4332	3	ANTH 13	
				ECO 2301	
				ECO 2314	
				GEO 1310	
				SOCI 131	
				PSY 1300	
				Summer II: POSI 2320	3
				Select one of the following (Additional English Requirements)	3
				ENG 2310	
				ENG 2320	
				ENG 2330	
				ENG 2340	
				ENG 2359	

			ENG 2360		
	12		12		12
					<b>Senior</b>
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>		
CS Project select one of the following:	3	EDST 4681	6		
CS 4318					
CS 4326					
CS 4371					
CS 4380					
CS 4398					
CI 4343	3				
CI 4370	3				
RDG 3323	3				
	12		6		

Total Hours: 126

- MATH 2417 or MATH 2471 may substitute for the MATH 1317, MATH 1319, MATH 1329, or MATH 2321 requirement.
- Computer Science majors must take eight hours (2 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141, and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. The eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.
- Students pursuing the B.A. degree are required to complete 6 hours of language (2310 and 2320) in the same modern language. Most students will have to complete 1410 and 1420 as prerequisites before attempting 2310.

## Bachelor of Science (B.S.) Major in Computer Science

**Minimum required: 120 semester hours**  
**General Requirements**

- A minimum of 120 hours is required for graduation. Of those, 9 hours must be writing intensive and 36 hours must be advanced.
- A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for additional information about general education core curriculum requirements.
- In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
- Students pursuing the B.S. are required to complete a total of 17 hours in mathematics from MATH 2358, 2471, 2472, 3305, and 3398. Therefore, a mathematics or applied mathematics minor is recommended.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of language taken in high school, then two semesters of the same modern language must be taken at the college level.

6. Computer Science majors must complete 43 hours of CS, including one CS project course from: CS 4318, 4326, 4371, 4380, or 4398.
7. The number of free electives a student will complete varies, depending on the number of hours needed to satisfy the 120 and/or the 36 advanced or 9 hours writing intensive requirements. Students should consult with the academic advisor before enrolling in any free elective courses to ensure that electives are needed.

<b>Freshman</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CS 1428	4	CS 2308	3
MATH 2471	4	MATH 2472	4
US 1100	1	ENG 1320	3
ENG 1310	3	PHIL 1305 or 1320	3
COMM 1310	3	MATH 2358	3
	15		16

<b>Sophomore</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CS 2318	3	CS 2315	3
CS 3354	3	CS 3358	3
MATH 3398	3	Life and Physical Sciences <sup>1</sup>	4
Life and Physical Sciences <sup>1</sup>	4	Select one of the following (Social and Behavioral Sciences):	3
		ANTH 1312	
		ECO 2301	
		ECO 2314	
		GEO 1310	
		SOCI 1310	
		PSY 1300	
		Select one of the following (English Literature):	3
		ENG 2310	
		ENG 2320	
		ENG 2330	
		ENG 2340	
		ENG 2359	
		ENG 2360	
	13		16

<b>Junior</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CS 3339	3	CS Advanced Elective	3
CS 3398	3	CS Advanced Elective	3
Select one of the following (Second English Literature): <sup>2</sup>	3	MATH 3305	3
ENG 2310		Life and Physical Sciences <sup>1</sup>	4
ENG 2320		HIST 1320	3
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
ENG 3303 or 3311			
Life and Physical Sciences <sup>1</sup>	4		

HIST 1310	3		
	16		16
<b>Senior</b>			
	<b>First Semester Hours</b>		<b>Second Semester Hours</b>
CS 4328	3	Select one of the following (CS Project):	3
CS Advanced Elective	3	CS 4318	
Minor	3	CS 4326	
POSI 2310	3	CS 4371	
Select one of the following:	3	CS 4380	
ART 2313		CS 4398	
DAN 2313		CS Advanced Elective	3
MU 2313		Minor <sup>4</sup>	3
TH 2313		POSI 2320	3
		Elective	1
	15		13

Total Hours: 120

<sup>1</sup> Computer Science majors must take sixteen hours (4 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141 and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. Eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.

<sup>2</sup> Students pursuing the B.S. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from ENG 2310, ENG 2320, ENG 2330, ENG 2340, ENG 2359, ENG 2360, ENG 3303 (Technical Writing), or ENG 3311 (Writing for the Computer Industry) to fulfill this requirement. ENG 3303 or ENG 3311 is recommended.

<sup>3</sup> Computer Science majors must complete one CS project course from: CS 4318, CS 4326, CS 4371, CS 4380, or CS 4398.

<sup>4</sup> A minor is required, and it is recommended that it be chosen in consultation with the academic advisor.

## Bachelor of Science (B.S.) Major in Computer Science (Computer Engineering Concentration)

### Minimum required: 120 semester hours General Requirements

1. A minimum of 120 hours is required for graduation. Of those, 9 hours must be writing intensive and 36 hours must be advanced.
2. A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for additional information about general education core curriculum requirements.
3. In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
4. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the

absence of language taken in high school, then two semesters of the same modern language must be taken at the college level.

5. The number of free electives a student will complete varies, depending on the number of hours needed to satisfy the 120 and/or the 36 advanced or 9 hours writing intensive requirements. Students should consult with the academic advisor before enrolling in any free elective courses to ensure that electives are needed.
6. Computer Science majors with the computer engineering (CE) concentration must complete one CS project course from: CS 4318, CS 4326, CS 4371, CS 4380, or CS 4398. (Cannot be the same computer science course completed to satisfy the CE concentration elective.)
7. The concentration in computer engineering consists of:

CS 3369	Embedded Computer Systems	3
EE 2400	Circuits I	4
EE 2420	Digital Logic	4
Select one of the following:		3
CS 4310	Computer Networks	
CS 4318	Compiler Construction	
CS 4380	Parallel Programming	
CS 4388	Computer Graphics	

**Freshman**

	First Semester Hours	Second Semester Hours	
CS 1428	4	CS 2308	3
MATH 2471	4	MATH 2472	4
US 1100	1	ENG 1320	3
ENG 1310	3	PHIL 1305 or 1320	3
COMM 1310	3	MATH 2358	3
	15		16

**Sophomore**

	First Semester Hours	Second Semester Hours	
CS 2318	3	CS 3358	3
EE 2420	4	CS 2315	3
CS 3354	3	MATH 3398	3
Life and Physical Sciences <sup>1</sup>	4	Life and Physical Sciences <sup>2</sup>	4
Select one of the following (English Literature):	3	POSI 2320	3
ENG 2310			
ENG 2320			
ENG 2330			
ENG 2340			
ENG 2359			
ENG 2360			
	17		16

**Junior**

	First Semester Hours	Second Semester Hours	
CS 3339	3	CS 3398	3
EE 2400	4	MATH 3305	3
Select one of the following (Additional English requirement): <sup>3</sup>	3	Life and Physical Sciences <sup>1</sup>	4
ENG 2310		HIST 1310	3

ENG 2320	CS/CE concentration elective: select of the following	3
ENG 2330	CS 4310	
ENG 2340	CS 4318	
ENG 2359	CS 4380	
ENG 2360	CS 4388	
ENG 3303 or 3311		
Life and Physical Sciences <sup>1</sup>	4	
	14	16
<b>Senior</b>		
	<b>First Semester Hours</b>	<b>Second Semester Hours</b>
CS 3369	3	CS Project Course: <sup>4</sup>
CS 4328	3	CS 4318
HIST 1320	3	CS 4326
Select one of the following:	3	CS 4371
ART 2313		CS 4380
DAN 2313		CS 4398
MU 2313		Minor <sup>5</sup>
TH 2313		POSI 2320
		Social and Behavioral Sciences
		Electives
	12	14

Total Hours: 120

<sup>1</sup> Computer Science majors must take sixteen hours (4 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141 and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. Eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.

<sup>2</sup> Students pursuing the B.S. are required to complete a total of 17 hours in mathematics from MATH 2471, MATH 2472, MATH 3305, MATH 2358, MATH 3398. Therefore, a mathematics or applied mathematics minor is recommended.

<sup>3</sup> Students pursuing the B.S. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from ENG 2310, ENG 2320, ENG 2330, ENG 2340, ENG 2359, ENG 2360, ENG 3303 (Technical Writing), or ENG 3311 (Writing for the Computer Industry) to fulfill this requirement. ENG 3303 or ENG 3311 is recommended.

<sup>4</sup> Computer Science majors must complete one CS project course from: CS 4318, CS 4326, CS 4371, CS 4380, or CS 4398. Cannot be the same Computer Science course completed to satisfy the CE concentration elective.

<sup>5</sup> A minor is required, and it is recommended that it be chosen in consultation with the academic advisor.

# Bachelor of Science (B.S.) Major in Computer Science (Teacher Certification in Computer Science, Grades 8-12)

**Minimum required: 131 semester hours**

## General Requirements

1. A minimum of 131 hours is required for graduation. Of those hours, 9 hours must be writing intensive hours, and 36 must be advanced.
2. A minimum of 42 hours must be completed in the general education core curriculum. Refer to the Academic Services section of this catalog for general education core curriculum requirements.
3. In addition to satisfying the University graduation requirements, students must earn a grade of C or higher in all computer science and mathematics courses used to satisfy the requirements of the computer science major.
4. Computer Science majors must complete 40 hours of CS including a CS project course from: CS 4318, CS 4326, CS 4371, CS 4380 or CS 4398.
5. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).
6. A minor is required. Students seeking teacher certification automatically satisfy a minor in Secondary Education when they successfully complete the 21 hours of Professional Education sequence of courses under the College of Education:
 

CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6
<b>Total Hours</b>		<b>18</b>
7. Students pursuing the B.S. are required to complete a total of 17 hours in mathematics from:
 

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
MATH 3305	Introduction to Probability and Statistics	3
MATH 2358	Discrete Mathematics I	3
MATH 3398	Discrete Mathematics II	3
<b>Total Hours</b>		<b>17</b>
8. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of language taken in high school, then two semesters of the same modern language (1410 and 1420) must be taken at the college level.

### Freshman

First Semester	Hours	Second Semester	Hours
CS 1428	4	CS 2308	3
MATH 2471	4	MATH 2472	4
US 1100	1	ENG 1320	3

ENG 1310	3	PHIL 1305 or 1320	3
COMM 1310	3	MATH 2358	3
15		16	

### Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
CS 2318	3	CS 3358	3	Summer I:	
CS 3354	3	CS 2315	3	HIST 1310	3
MATH 3398	3	Life and Physical Sciences <sup>1</sup>	4	POSI 2310	3
Life and Physical Sciences <sup>1</sup>	4	Select one of the following (Social and Behavioral Sciences):	3	Summer II:	
Select one of the following (English Literature):	3	ANTH 1312	3	HIST 1320	3
ENG 2310	3	ECO 2301	3	POSI 2320	3
ENG 2320	3	ECO 2314	3		
ENG 2330	3	GEO 1310	3		
ENG 2340	3	SOCI 1310	3		
ENG 2350	3	PSY 1300	3		
ENG 2360	3				
16		13		12	

### Junior

First Semester	Hours	Second Semester	Hours	Summer	Hours
CS 3398	3	CS Advanced Elective	3	Summer I:	
CS 3339	3	CS Advanced Elective	3	MATH 3305	3
CI 4332	3	CS Advanced Elective	3	Summer II:	
Select one of the following (Second English Literature): <sup>2</sup>	3	CI 3325	3	Select one of the following:	3
ENG 2310	3	Life and Physical Sciences <sup>1</sup>	4	ART 2313	3
ENG 2320	3			DAN 2310	3
ENG 2330	3			MU 2313	3
ENG 2340	3			TH 2313	3
ENG 2359	3				

ENG 330: or 3311				
Life and Physical Science <sup>1</sup>	4			
	16		16	6
				<b>Senior</b>
	<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
CI 4370		3	EDST 4681	6
CI 4343		3		
RDG 3323		3		
CS Project course select from: <sup>3</sup>		3		
CS 4318				
CS 4326				
CS 4371				
CS 4380				
CS 4398				
CS 4328		3		
		15		6
Total Hours: 131				

<sup>1</sup> Computer Science majors must take sixteen hours (4 courses) from: BIO 1330/BIO 1130 & BIO 1331/BIO 1131; PHYS 1315/PHYS 1115 & PHYS 1325/PHYS 1125 [or PHYS 1430 & PHYS 2425]; CHEM 1341/CHEM 1141 and CHEM 1342/CHEM 1142; or GEOL 1410 & GEOL 1420. Eight hours (2 courses) must be from the same science (BIO, CHEM, GEOL, or PHYS) as listed above.

<sup>2</sup> Students pursuing the B.S. degree are required to complete an additional 3 hours of English Literature beyond the general education core curriculum. A grade of C or higher is required in these additional hours to satisfy the graduation requirements of the CS major. Students may select from ENG 2310, ENG 2320, ENG 2330, ENG 2340, ENG 2359, ENG 2360, ENG 3303 (Technical Writing), or ENG 3311 (Writing for the Computer Industry) to fulfill this requirement. ENG 3303 or ENG 3311 is recommended.

<sup>3</sup> Computer Science majors must complete one CS project course from: CS 4318, CS 4326, CS 4371, CS 4380, or CS 4398.

## Minor in Computer Science

A minor in Computer Science requires:

CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3
CS 2318	Assembly Language	3
CS 3358	Data Structures and Algorithms	3
Advanced CS hours		6
MATH 2358	Discrete Mathematics I	3
Total Hours		22

## Second Teaching Field in Computer Science (Grades 8-12)

For students who are seeking teacher certification in their major and would like a second teaching field in Computer Science, the requirements are:

CS 1308	Computer Literacy and the Internet	3
CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3
CS 2315	Computer Ethics	3
CS 2318	Assembly Language	3
CS 2420	Digital Logic	4
CS 3358	Data Structures and Algorithms	3
CS 3398	Software Engineering	3
CS 3354	Object-Oriented Design and Programming	3
MATH 2358	Discrete Mathematics I	3
Total Hours		32

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Ingram School of Engineering

Roy F. Mitte Building Room 5202

T: 512.245.1826 F: 512.245.7771

[www.engineering.txstate.edu](http://www.engineering.txstate.edu) (<http://www.engineering.txstate.edu>)

The B.S. major in Electrical Engineering provides students the background that is essential for the conception, design, development, and manufacture of electrical, electronic and information technology products and systems. Students may specialize in the areas of networks and communication systems, micro and nano devices and systems, or computer engineering. Proficiency in mathematics is especially important in Electrical Engineering. In order to be admitted to the EE program, a student needs to be qualified to take MATH 2417 or higher. The B.S. with a major in Electrical Engineering and the B.S. with a major in Electrical Engineering with Computer Engineering Concentration are both accredited by the Engineering Accreditation Commission of ABET ([www.abet.org](http://www.abet.org) (<http://www.abet.org>)).

The B.S. major in Industrial Engineering provides students the background that is essential for improving the productivity, quality, safety, and cost effectiveness of all types of systems and processes. Industrial engineers are typically engaged in the areas of quality assurance, ergonomics, production and operations management, facilities design, work design, system optimization, information technology, and industrial safety. The B.S. major in Industrial Engineering is accredited by the Engineering Accreditation Commission of ABET ([www.abet.org](http://www.abet.org) (<http://www.abet.org>)).

The B.S. major in Manufacturing Engineering is designed to provide students with the mathematics, science, management, engineering, and applications skills needed to become manufacturing engineers. These engineers are typically responsible for promoting manufacturability, process planning, tool design, cost estimation, factory layout, work methods, quality assurance, automation, and systems integration. The degree has a concentration in general manufacturing, mechanical systems or semiconductor/high technology manufacturing. The B.S. major in Manufacturing Engineering is accredited by the



Engineering Accreditation Commission of ABET ([www.abet.org](http://www.abet.org) (<http://www.abet.org>)).

Annual student enrollment and graduation data is posted by the institution and is accessed through the website <http://www.engineering.txstate.edu/About/Data.html>.

## The Ingram School of Engineering Mission Statement

1. To provide students with an exceptional education in various disciplines of engineering,
2. To establish, through dedicated faculty, a nationally recognized research program, preparing interested students to achieve excellence in graduate studies and research, and
3. To serve the State of Texas and the nation by creating highly skilled, diverse, and motivated professionals capable of technological innovation and dedicated to the improvement of society.

## The Ingram School of Engineering Vision Statement

The Ingram School of Engineering will be a nationally recognized institution of higher education, serving students and employers with a complete set of accredited engineering programs supported by a faculty which maintains high standards of teaching, research, and service. To accomplish this vision, we will:

1. Engage undergraduate and graduate students with innovative, multidisciplinary, and nationally recognized funded research programs,
2. Emphasize quality undergraduate and graduate education using a practical, interactive, and contemporary learning environment,
3. Produce first-generation professional college graduates as part of an HSI-designated university; be recognized for exceptional community service; and create tight bonds with alumni who will serve as professional mentors, sponsors, and advisors,
4. Promote a student-centered culture based on collegiality, scholarship, enthusiasm, integrity, and mutual respect among diverse faculty, staff, and students.

## The Electrical Engineering Mission Statement, Program Educational Objectives, and Student Outcomes

### Our mission is:

To lead students to be innovative, ethical engineering professionals through solid education at the undergraduate level, by providing opportunities to participate in research, and by responding to the needs of the Central Texas region, the state of Texas, and the nation. We achieve this mission by:

- Engaging colleagues and students in new and more effective ways to transmit knowledge to the next generation of electrical and computer engineers.
- Engaging colleagues and students in pioneering, scholarly, multidisciplinary research efforts.
- Creating an inclusive environment which emphasizes ethics and integrity and fosters creativity, appreciation for all ideas, and respect for others.

- Seeking and maintaining bonds with our alumni and the industries which hire them.
- Maintaining a student-centered atmosphere for undergraduate education and research.

### The objectives of the program are to produce graduates who, in 3-5 years of receiving the EE degree, attain the necessary skills and abilities to:

1. Analyze, design, develop, optimize, and implement complex systems in the context of modern interdisciplinary engineering work.
2. Contribute to the solution of practical problems in industrial, service, and government organizations by applying skills acquired through formal and lifelong learning.
3. Enjoy fulfilling engineering careers, including professional advancement, entrepreneurship, and the pursuit of graduate studies.
4. Practice engineering while observing appropriate technological, organizational, societal, global, and ethical contexts.

### Each graduate is expected to have:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- (d) an ability to function on multidisciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global economic, environmental, and societal context
- (i) a recognition of the need for, and an ability to engage in lifelong learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- (l) a knowledge of probability, statistics, and mathematics through differential and integral calculus, differential equations, linear algebra, complex variables, and discrete mathematics
- (m) a knowledge of sciences and engineering topics (including computer science) necessary to analyze and design complex electrical and electronic devices, software, and systems containing hardware and software components.

## The Industrial Engineering Mission Statement, Program Educational Objectives, and Student Outcomes

### Our mission is:

To provide an excellent and innovative education setting to our students so they can learn and discover how complex systems work better. The IE program strives to maintain a comprehensive curriculum that enables students to become leading engineers and/or creative researchers in the global marketplace and/or in graduate studies. The program seeks to collaborate with private and public sectors in the search of methodologies and creative solutions to problems that contribute to the advancement of education, technology, and professional development. Through plans and activities that search to embrace a student population of strong diversity, the program attempts to be a significant provider of global workforce.

### Within 3-5 years after graduation, graduates of our IE program are expected to be able to attain the following educational objectives::

1. Perform as industry leaders in the global marketplace, capable of successfully planning, controlling, and implementing large-scale projects.
2. Understand and apply the principles of science, technology, engineering, and math involving industry-relevant problems.
3. Contribute to the profitable growth of industrial economic sectors by using IE analytical tools, effective computational approaches, and systems thinking methodologies.
4. Maintain high standards of professional and ethical responsibility.
5. Work effectively in diverse, multicultural environments emphasizing the application of teamwork and communication skills.
6. Practice life-long learning to sustain technical currency and excellence throughout one's career. Promote the profession and its benefits to society.

### Each student is expected to demonstrate:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- (d) an ability to function on multidisciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

(i) a recognition of the need for, and an ability to engage in life-long learning

(j) a knowledge of contemporary issues

(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

(l) an ability to design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy and to accomplish the integration of systems using appropriate analytical, computational, and experimental practices.

## The Manufacturing Engineering Mission Statement, Program Educational Objectives, and Student Outcomes

### Our mission is:

- To sustain a quality, student-centered, industry-oriented engineering curriculum.
- To attract students and prepare them with the knowledge, practical skills, and abilities to perform as highly competent engineers in the global marketplace and/or in graduate studies.
- To produce graduates skilled in materials and manufacturing processes; process, assembly and product engineering; manufacturing competitiveness and systems design.

### Within 3-5 years after graduation, graduates of the Manufacturing Engineering program are expected to be able to attain the following educational objectives:

1. Perform as engineering leaders in the global marketplace.
2. Understand and apply the principles of math, science, and engineering in design and manufacturing related activities.
3. Contribute to the profitable growth of manufacturing businesses.
4. Maintain high standards of professional and ethical responsibility.
5. Practice life-long learning.

### Each student is expected to demonstrate:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- (d) an ability to function on multidisciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

(i) a recognition of the need for, and an ability to engage in life-long learning

(j) a knowledge of contemporary issues

(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

## Bachelor of Science (B.S.)

- Major in Electrical Engineering (Computer Engineering Concentration) (p. 511)
- Major in Electrical Engineering (Micro and Nano Devices and Systems Concentration) (p. 512)
- Major in Electrical Engineering (Networks and Communication Systems Concentration) (p. 513)
- Major in Industrial Engineering (p. 514)
- Major in Manufacturing Engineering (General Manufacturing Concentration) (p. 515)
- Major in Manufacturing Engineering (Mechanical Systems Concentration) (p. 516)
- Major in Manufacturing Engineering (Semiconductor Manufacturing Concentration) (p. 516)

Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this school include: EE (p. 506), ENGR (p. 508), IE (p. 509), MFGE (p. 510)**

## Courses in Electrical Engineering (EE)

### EE 2400. Circuits I.

This course provides an introduction to the profession of Electrical Engineering and its specialties. Fundamental DC and sinusoidal steady-state circuit analysis techniques include Ohm's law, power, Kirchoff's laws, and Thevenin and Norton equivalent circuits. Prerequisites: MATH 2471

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 2420. Digital Logic.

An introduction to fundamental computer technologies, including Boolean logic design, logic circuits and devices, and basic computer hardware are studied. Laboratories provide hands-on experience with electricity, combinational and sequential digital circuits, and computer hardware. Prerequisite: CS 1428 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

### EE 3340. Electromagnetics.

Wave propagation, Maxwell's equations, transmission lines, wave guides, and antennas. Prerequisites: MATH 3373 and PHYS 2435 with grades of "C" or higher. Co-requisite: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 3350. Electronics I.

Analysis and design of active device equivalent circuits with emphasis on transistors, switching circuits, and operational amplifiers. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

### EE 3355. Solid State Devices.

Semiconductor materials, principles of carrier motion, operating principles and circuit models for diodes, bipolar transistors and field-effect transistors. Introduction to integrated circuits. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

### EE 3370. Signals and Systems.

Frequency domain representation of signals and systems and frequency domain concepts for circuit analysis and design. Transfer function and frequency response, Laplace and z-transforms, Fourier series, Fourier transform, and sampling. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 3400. Circuits II.

This course includes a brief review of EE 2400, transient analysis, application of Laplace transforms, Bode plots, and network principles. Materials learning in EE 2400 is extended and applied here. Prerequisites: EE 2400 and MATH 3323

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 3420. Microprocessors.

Introduction to microprocessors, principles of operation, assembly language programming, timing analysis, and I/O interfacing. Prerequisites: EE 2420

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

### EE 4321. Digital Systems Design Using HDL.

This course will cover the design of digital systems using HDL including implementation of custom microprocessor and peripheral architectures. Prerequisite: EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 4323. Digital Image Processing.

This course provides the necessary fundamental techniques to analyze and process digital images. It covers principles, concepts, and techniques of digital image processing and computer vision. Prerequisites: CS 1428 and EE 3420 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### EE 4350. Electronics II.

Analysis and design of integrated circuits, feedback, and frequency response. Prerequisites: EE 3350

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**EE 4351. Fundamentals of Electroceramics.**

Introduction to binary and ternary phase diagrams, non-centro-symmetric crystal structures and symmetry groups, nonlinear dielectrics (including ferroelectricity, piezoelectricity, pyroelectricity), nonlinear magnetics, oxide wideband gap semiconductors, detectors and sensors, brief introduction to MEMS, radhard electronics, and spintronics technology. Research oriented labs related to materials processing, characterization, fabrication, and testing. Prerequisite: ENGR 2300 or equivalent; Co-requisite: EE 3355; GPA of 2.25 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4352. Introduction to VLSI Design.**

Analysis of design of CMOS integrated circuits. Introduction to CAD tools for VLSI design. Prerequisites: CS 2420, EE 2420, and EE 3350 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4353. Fundamentals of Advanced CMOS Technology.**

Key concepts of advanced semiconductor technology including Moore's law, transition from NMOS to CMOS, CMOS scaling, high-K gate dielectrics, metal electrodes, source/drain scaling technology, new channel materials replacing silicon, and three dimensional device structures. Prerequisite: EE 3355 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4354. Flexible Electronics.**

This course will cover the materials systems, processes, device physics and applications of flexible electronics. The materials range from amorphous and nanocrystalline silicon, organic and polymeric semiconductors to solution cast films of carbon nanotubes. Real device discussions include high speed transistors, photovoltaics, flexible flat-panel displays, medical image sensors, etc. Prerequisites: EE 3350, EE 3355, and EE 4350 with grades of "C" or higher, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4355. Analog and Mixed Signal Design.**

Operational amplifier design applications, feedback, offset, stability, and compensation. Introduction to random signals and noise, discrete time circuitry analog-to-digital converters, and digital-to-analog converters. Prerequisites: EE 3370 and EE 4350

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4358. Introduction to Microelectromechanical Systems.**

This course will cover fabrication techniques for microelectromechanical devices and systems as well as provide an introduction to the design of micromechanical transducers. Co-requisite: MFG 4392

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4370. Communication Systems.**

Transmission of signals through linear systems, analog and digital modulation, filtering, and noise. Prerequisites: EE 3300, EE 3370, and IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4372. Communication Networks.**

Data communication concepts, protocols, algorithms, 7-layer OSI model, physical media, LAN architecture and components, Ethernet, FDDI, TCP/IP, and related standards. Prerequisite: EE 2400 and EE 3420

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4374. Introduction to Wireless Communication.**

Principles, practice, and system overview of mobile systems. Modulation, demodulation, coding, encoding, and multiple access techniques.

Prerequisites: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4376. Introduction to Telecommunications.**

Fundamentals of telecommunications, telephone networks, switching and transmission systems, circuit and packet switching, cell processing, and queuing theory and applications. Co-requisite: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4377. Introduction to Digital Signal Processing.**

Discrete systems, convolution, spectral analysis, and FIR and IIR filter design. Prerequisites: EE 3370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4378. Data Compression and Error Control Coding.**

Introduction to information theory, information content of messages, entropy and source coding, data compression, channel capacity data translation codes, and fundamentals of error correcting codes. Corequisite: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4390. Electrical Engineering Design I.**

This course is a team-based design of a system or component, which will include oral presentations and written reports. Prerequisites: EE 3350, EE 3370, and EE 3420 with grades of "C" or higher. Co-requisites: EE 4352 or EE 4370. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**EE 4391. Electrical Engineering Design II.**

Advanced team-based design of a system or component, which will include oral presentations and written reports. Prerequisites: EE 4390. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**EE 4399A. Dynamic Data Acquisition and Analysis.**

Methods for acquiring and analyzing dynamic (time-varying) data. Frequency domain analysis, analog-to-digital conversion, windowing, and digital filtering taught in the context of various industrial applications.

Prerequisite: EE 3370 Signals and Systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 4399B. Overview of Information Theory and Coding.**

Fundamentals of Information Theory, Huffman coding, image encoding techniques, Hamming and BCH error control codes, Reed-Solomon coding, convolutional codes and the Viterbi decoding algorithm

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Courses in Engineering (ENGR)

**ENGR 1313. Engineering Design Graphics.**

An introductory communications course in the tools and techniques utilized to produce various types of working drawings. Principles of multiview projections, geometric relationships, shape and size description, and pictorial methods are included with emphasis on technical applications and design problem solving

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 2300. Materials Engineering.**

Structure, properties and behavior of engineering materials including metals, polymers, composites and ceramics. Mechanical, electrical, magnetic, thermal, and optical properties are covered. Prerequisites: CHEM 1341 or CHEM 1335; CHEM 1141

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 3190. Cooperative Education.**

This course provides special problems in engineering for cooperative education students. Problems are related to the student's work assignment and culminate in a technical report. Three hours may be used as technical elective, and one additional hour may be used as free elective; 4 hours may be used toward graduation. Prerequisite: Overall GPA 2.5 or above and approval of department head

**1 Credit Hour. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ENGR 3311. Mechanics of Materials.**

This course covers the principles of mechanic materials and includes the following topics: stress and strain; elastic modulus and Poisson's ratio; constitutive equations; torsion; bending; axial, shear and bending moment diagrams; deflection of beams; and stability of columns.

Prerequisite: ENGR 3375 or MATH 3375

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3315. Engineering Economic Analysis.**

Interest formulas, economic equivalence, rate of return analysis, techniques of economic analysis for engineering decisions and an introduction to cost estimation. Prerequisite: MATH 1315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 3360. Structural Analysis.**

Structural engineering fundamentals to include design loads, reactions, force systems, functions of a structure, and the analysis of statically determinate and indeterminate structures by classical and modern techniques. Prerequisite: ENGR 3311

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3373. Circuits and Devices.**

DC and AC circuit analysis, network theorems, electromechanical devices, electronic devices and an introduction to amplifiers, oscillators and operational amplifiers. Prerequisite: PHYS 2425

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3375. Mechanics for Engineers.**

This course covers statics, using a vector approach to mechanics.

Prerequisite: PHYS 1430. Co-requisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 4390. Internship.**

Supervised on-the-job professional learning experience in engineering and other technical areas. This course provides practical work experience in their particular field of interest

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 4395. Independent Studies in Engineering.**

Open to undergraduate students on an independent basis by arrangement with the faculty member concerned. Requires school director's approval. Repeatable for credit with different emphasis.

Prerequisite: junior or senior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



## Courses in Industrial Engineering (IE)

### IE 3310. Project Management for Engineers.

Basic principles governing the efficient and effective management of engineering projects. Topics include project planning, scheduling, and cost estimation procedures. Prerequisite: ENGR 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### IE 3320. Engineering Statistics.

Fundamentals of probability and statistical inference for engineering applications, probability distributions, parameter estimation, hypothesis testing, and analysis of variance. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

### IE 3330. Quality Engineering.

Quality assurance systems, quality costs, statistical quality control, and approaches for engineering quality into products and processes. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 3340. Operations Research.

This course teaches models in operations research including linear programs, the simplex method, duality theory, sensitivity analysis, integer programs, and network flows. The emphasis is in learning to recognize, formulate, solve, and analyze practical industrial problems. The course also teaches commercial mathematical programming languages.

Prerequisites: CS 1428, MATH 3377, ENGR 3315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 3360. Methods Engineering and Ergonomics.

This course is a survey of methods for assessing and improving performance of individuals and groups in organizations. Techniques include various basic industrial engineering tools, work analysis, data acquisition and application, performance evaluation and appraisal, and work measurement procedures. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4310. Statistical Design of Experiments.

Statistically designed experiments for engineering applications. Topics include analysis of variance, randomized complete designs, factorial designs, empirical models generated from controlled experiments, and response surfaces. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4320. Integrated Production Systems.

Basic concepts in the design and control of integrated production systems to include forecasting, inventory models, material requirements planning, scheduling, planning, and shop floor control. Coverage will include both traditional and kanban systems. Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4330. Reliability Engineering.

Reliability of components and systems, reliability models, life testing, failure analysis, and maintainability. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4340. Optimization Techniques.

Mathematical modeling and computational methods for linear, integer, and nonlinear programming problems. Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4350. Supply-Chain Engineering.

The analysis of supply chain problems to include facility location, customer assignment, vehicle routing, inventory management, and the role of information and decision support systems in supply chains.

Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4355. Facilities Planning.

Planning, design, and analysis of facilities. Emphasizes the principles and methods used for solving plant layout, facility location, material handling, automation, computer integration, and warehouse operations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4360. Human Factors Design.

This course will emphasize the applications of human factors engineering to systems design. Prerequisites: IE 3360. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

### IE 4370. Probabilistic Operations Research.

Probabilistic models in operations research to include queuing theory, simulation, and Markov chains. Emphasis will be placed on modeling applications to solve problems in industry and computing. Prerequisite(s): IE 3320 and CS 1428

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### IE 4380. Industrial Safety.

This course is a survey of occupational safety and hazards control. Topics include the history of occupational safety; hazard sources related to humans, environment, and machines; and engineering management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### IE 4390. Industrial Engineering Capstone Design.

Students form teams and apply industrial engineering principles to develop and implement solutions to industrial problems and/or systems engineering issues. Prerequisites: IE 3310, IE 3330; and at least two of: IE 3360, IE 4310, IE 4310, IE 4355, IE 4370 and MFGE 4396. Corequisites: IE 4320 and IE 4350

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4399A. Lean Six Sigma Methodologies.**

This course covers the principles and methodologies of Six Sigma and Lean Manufacturing. Emphasis is on the tools and techniques used in Lean Six Sigma projects, including statistical process control, experimental design, project management and lean tools. Students will develop and complete a Lean Six Sigma project in industry.

Prerequisite(s): IE 3310, ID 3330, and ID 4310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399D. Modern Heuristic Optimization Techniques.**

Heuristic methods that search beyond local optima such as simulated annealing, tabu search, genetic algorithms, ant-colony systems, and particle swarm. Papers from the literature, problem-specific heuristics, evaluation methods and serial/parallel implementations are discussed.

This course is an advanced undergraduate course for students in engineering and related fields. Prerequisites: IE 3340, CS 1428

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399E. Introduction to Systems Engineering.**

This course includes introductory topics in systems engineering and the systems-thinking process. The focus of the course is on the development of complex systems. Important topics include system understanding, modeling and design, the system development process, needs analysis, concept exploration and definition, design, integration and evaluation, and systems engineering management. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399F. Introduction to Data-Intensive Analysis and Simulation.**

This course covers the foundational topics in data science and consists of three parts: The first part focuses on data extraction from databases, sensors and social media. The second part reviews data-intensive analysis through statistics and machine learning tools. The third part introduces the concept of farming data using design of experiments methodologies and computer simulation. Prerequisites: IE 3340 and IE 4310

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Courses in Manufacturing Engineering (MFGE)

**MFGE 2132. Manufacturing Processes Lab.**

Hands-on experience in variety of material removal processes such as turning, milling, drilling, and CNC machining; joining processes such as gas/arc welding, and soldering; metal casting, polymer and composite processing, and microelectronics manufacturing. Prerequisite or corequisite: MFGE 2332

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 2332. Material Selection and Manufacturing Processes.**

Overview of material processing, material selection and process parameter determination. Processes covered include: material removal, forming, casting, polymer processing, semiconductor manufacturing and assembly processes. Laboratory activities provide opportunities for applying the design through manufacture activities of the product cycle.

Prerequisite: ENGR 2300. Corequisite: ENGR 2300

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 3316. Computer Aided Design and Manufacturing.**

Topics include design process, description of wireframe/surface/solid models, transformation and manipulation of objects, finite element analysis, data exchange, process planning, machine elements, fundamentals of numerical control programming for turning and milling processes, fundamentals of CAD/CAM systems, CNC code generation by CAD/CAM software, waterjet, and plasma cutting. Prerequisites: ENGR 1313 and MFGE2332

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 4355. Design of Machine Elements.**

This course will cover the general procedures in designing various machine elements. These elements include shafts and flexible elements, springs, welded/riveted/brazed joints, screw fasteners, rolling/sliding contact bearings, gears, cams, and followers. Emphasis will be placed on using standard design practices. Prerequisite: ENGR 3311 or TECH 2351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4357. Dynamics of Machinery.**

This course will cover kinematics and kinetics of particles; kinematics and kinetics of rigid bodies in two and three dimensions; application of dynamics to the analysis and design of machine and mechanical components; mechanical vibrations; linkages; gear trains; and balancing of machines. Prerequisites: MATH 3323 and MATH 3375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4363. Concurrent Process Engineering.**

Integrated design and development of products and processes; impact of ethical issues on design; the discussion of real-world engineering problems and emerging engineering issues with practicing engineers; preparation of reports; plans or specifications; cost estimation; project management, communication and the fabrication of an engineered product/system. Prerequisites: ENGR 3311, MFGE 4365, and senior standing. Corequisite: IE 3330. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MFGE 4365. Tool Design.**

Design of single and multi-point cutting tools, jig and fixture design, gage design, and the design of tooling for polymer processing and sheet metal fabrication. Laboratory projects will involve the use of computer aided design and rapid prototyping. Prerequisite: MFGE 3316 or ENGR 3316 or TECH 2310

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MFGE 4367. Polymer Properties and Processing.**

Structure, physical & mechanical properties, design considerations and processing methods for polymer-based materials are presented. Processing methods include: injection molding, blow molding, thermoforming, compression molding, extrusion, filament winding, lay-up methods, vacuum bag molding and poltrusion. Prerequisite: MFGE 2332 or TECH 4362

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MFGE 4376. Control Systems and Instrumentation.**

The theory of automated control systems and its applications to manufacturing systems are covered in this course. Topics covered include: modeling of systems, time and frequency domain feedback control systems, stability analysis, transducer and sensor technology and digital control. Prerequisites: PHYS 1430 and one of the following MFGE 2332, TECH 4362 or EE 3370. Co-requisite: MATH 3323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MFGE 4392. Microelectronics Manufacturing I.**

Provides an overview of integrated circuit fabrication including crystal growth, wafer preparation, epitaxial growth, oxidation, diffusion, ion-implantation, thin film deposition, lithography, etching, device and circuit formation, packaging and testing. The laboratory component involves production and testing of a functional semiconductor device. Prerequisites: CHEM 1141 and CHEM 1341

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**MFGE 4394. Microelectronics Manufacturing II.**

Topics include: atomic models for diffusion, oxidation and ion implantation; topics related to thin film processes i.e. CVD, PVD; planarization by chemical-mechanical polishing and rapid thermal processing; and process integration for bipolar and MOS device fabrication. Students will design processes and model them using a simulation. Prerequisite: MFGE 4392

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MFGE 4395. Computer Integrated Manufacturing.**

This course is an overview of computer integrated manufacturing is presented. Topics include control strategies for manufacturing systems, automated material handling systems, production planning, shop floor control, manufacturing execution systems, manufacturing databases and their integration, data communication and protocols and man/machine interfaces. Prerequisite: MFGE 3316. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**MFGE 4396. Manufacturing Systems Design.**

Applications of simulation modeling to the design and analysis of manufacturing systems are presented in this course. Topics covered include queuing theory and discrete event simulation methods. Design projects will involve the use of current simulation language for modeling and analysis of manufacturing systems. Prerequisites: IE 3320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**MFGE 4399A. Reverse Engineering and Rapid Prototyping.**

In the course 3D scanning technology for design, analysis, and inspection, is covered. Also, applications of the 3D scanning in reverse engineering and different rapid prototyping processes in a hands-on approach will be explained in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MFGE 4399B. Introduction to Reinforced Polymer Nanocomposites in Industrial Applications.**

Introductory course in reinforced polymer nanocomposites focusing on materials, manufacturing, characterization, and applications. Include, primarily nanoclay polymer matrix composites. Thrust will be the challenges in low-cost manufacturing for industrial applications, commercial successes, its impact on current material market, and future

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MFGE 4399C. Introduction to Industrial Robotics.**

This course will cover the basic principles and techniques involved in industrial robotics. Emphasis will be placed on industrial robot applications, analysis of robot manipulators, components of industrial robots, robot programming and control. Prerequisite: MFGE 4376

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

## Bachelor of Science (B.S.) Major in Electrical Engineering (Computer Engineering Concentration)

### Minimum required: 136 semester hours General Requirements

- In order to declare Electrical Engineering as a major, students must meet one of the following prerequisites:
  - ACT Math score of 24 or higher,
  - SAT Math score of 520 (re-centered) or higher, or
  - credit for one of the following math courses with a grade of "C" or higher:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

Students who do not meet the above prerequisites may choose Pre-Electrical Engineering as their major. Pre-Electrical Engineering students who complete one of the following math courses with a grade of "C" or higher may declare Electrical Engineering as their major:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

- All Electrical Engineering majors must complete Electrical Engineering (EE) course prerequisites with a grade of "C" or higher.

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- Electrical Engineering degrees include all the courses required for an Applied Mathematics Minor.

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics MATH 2471; Life and Physical Sciences PHYS 1430 and PHYS 2425; and Social and Behavioral Sciences ECO 2301 or ECO 2314. See the Academic Services section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of eight (8) hours of approved, senior-level Electrical Engineering electives are required.

## Bachelor of Science (B.S.) Major in Electrical Engineering (Micro and Nano Devices and Systems Concentration)

**Minimum required: 137 semester hours**  
**General Requirements**

- In order to declare Electrical Engineering as a major, students must meet one of the following prerequisites:
  - ACT Math score of 24 or higher,
  - SAT Math score of 520 (re-centered) or higher, or
  - Credit for one of the following math courses with a grade of "C" or higher:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

Students who do not meet the above prerequisites may choose Pre-Electrical Engineering as their major. Pre-Electrical Engineering students who complete one of the following math courses with a grade of "C" or higher may declare Electrical Engineering as their major:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

- All Electrical Engineering majors must complete Electrical Engineering (EE) course prerequisites with a grade of "C" or higher.
- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- Electrical Engineering degrees include all the courses required for an Applied Mathematics Minor.

Freshman			
	First Semester	Hours	Second Semester
			Hours
CHEM 1335	3	PHYS 1430	4
CHEM 1141	1	CS 2308	3
CS 1428	4	MATH 2472	4
MATH 2471	4	ENG 1320	3
US 1100	1	EE 2420 or CS 2420	4
ENG 1310	3		
	16		18

Sophomore			
	First Semester	Hours	Second Semester
			Hours
ENG Literature <sup>1</sup>	3	EE 3420	4
MATH 2358	3	PHIL 1305 or 1320	3
EE 2400	4	MATH 3373	3
PHYS 2425	4	EE 3400	4
MATH 3323	3	CS 3358	3
	17		17

Junior			
	First Semester	Hours	Second Semester
			Hours
HIST 1310	3	HIST 1320	3
ECO 2301 <sup>1</sup>	3	POSI 2310	3
CS 4328	3	CS 3339	3
EE 3350	3	EE 3370	3
MATH 3377	3	EE 4352	3
		IE 3320	3
	15		18

Senior			
	First Semester	Hours	Second Semester
			Hours
EE 4350	3	Select one of the following:	3
POSI 2320	3	ART 2313	
CS 3398	3	DAN 2313	
EE 4372 or CS 4310	3	MU 2313	
EE 4377	3	TH 2313	
EE 4390	3	COMM 1310	3
		EE 4391	3
		EE electives <sup>2</sup>	8
	18		17

Total Hours: 136

Freshman					
	First Semester	Hours	Second Semester	Hours	Summer
					Hours
CHEM 1335	3	PHYS 1430	4	English Literature <sup>1</sup>	3
CHEM 1141	1	ENGR 2300	3	HIST 1320	3

COMM 1310	3	MATH 2472	4	PHIL 1305 or 1320	3
MATH 2471	4	ENG 1320	3		
US 1100	1	HIST 1310	3		
ENG 1310	3				
	15		17		9

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
EE 2400	4	EE 2420	4	POSI 2310	3
MATH 3323	3	ENGR 3375	3		
MATH 3373	3	MATH 3377	3		
PHYS 2425	4	PHYS 2435	4		
CS 1428	4	ECO 2301 <sup>1</sup>	3		
	18		17		3

Junior					
First Semester	Hours	Second Semester	Hours		
EE 3400	4	MFGE 4392	3		
EE 3340	3	EE 3350	3		
EE 3420	4	EE 3355	3		
IE 3320	3	EE 3370	3		
POSI 2320	3	Select one of the following:	3		
		ART 2313			
		DAN 2313			
		MU 2313			
		TH 2313			
	17		15		

Senior					
First Semester	Hours	Second Semester	Hours		
EE 4350	3	EE 4355 or MFGE 4394	3		
EE 4352	3	EE Electives <sup>2</sup>	6		
EE 4390	3	EE 4391	3		
EE Elective <sup>2</sup>	2				
ENGR 3315	3				
	14		12		

Total Hours: 137

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics MATH 2471; Life and Physical Sciences PHYS 1430 and PHYS 2425; and Social and Behavioral Sciences ECO 2301 or ECO 2314. See the Academic Services section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of eight (8) hours of approved, senior-level Electrical Engineering electives are required.

## Bachelor of Science (B.S.) Major in Electrical Engineering (Networks and Communication Systems Concentration)

### Minimum required: 137 semester hours General Requirements

- In order to declare Electrical Engineering as a major, students must meet one of the following prerequisites:
  - ACT Math score of 24 or higher,
  - SAT Math score of 520 (re-centered) or higher, or
  - credit for one of the following math courses with a grade of "C" or higher:
 

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

Students who do not meet the above prerequisites may choose Pre-Electrical Engineering as their major. Pre-Electrical Engineering students who complete one of the following math courses with a grade of "C" or higher may declare Electrical Engineering as their major:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

- All Electrical Engineering majors must complete Electrical Engineering (EE) course prerequisites with a grade of "C" or higher.
- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- Electrical Engineering degrees include all the courses required for an Applied Mathematics Minor.

Freshman					
First Semester	Hours	Second Semester	Hours	Summer	Hours
CHEM 1335	3	PHYS 1430	4	English Literature <sup>1</sup>	3
CHEM 1141	1	ENGR 2300	3	HIST 1320	3
MATH 2471	4	MATH 2472	4	PHIL 1305 or 1320	3
US 1100	1	ENG 1320	3		
ENG 1310	3	HIST 1310	3		
COMM 131C	3				
	15		17		9



		Sophomore			
First Semester	Hours	Second Semester	Hours	Summer Hours	
EE 2400	4	EE 3420	4	POSI 2310	3
MATH 3323	3	ENGR 3375	3		
MATH 3373	3	MATH 3377	3		
PHYS 2425	4	PHYS 2435	4		
CS 1428	4	ECO 2301 <sup>1</sup>	3		
		18	17		3

		Junior		
First Semester	Hours	Second Semester	Hours	
EE 3400	4	EE 3420	4	
EE 3340	3	EE 3350	3	
ENGR 3315	3	EE 3355	3	
IE 3320	3	EE 3370	3	
POSI 2320	3	Select one of the following:	3	
		ART 2313		
		DAN 2313		
		MU 2313		
		TH 2313		
		16	16	

		Senior		
First Semester	Hours	Second Semester	Hours	
EE 4350	3	EE 4372	3	
EE 4370	3	EE Electives <sup>2</sup>	6	
EE 4323 or 4377	3	EE 4391	3	
EE Elective <sup>2</sup>	2			
EE 4390	3			
		14	12	

Total Hours: 137

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics MATH 2471; Life and Physical Sciences PHYS 1430 and PHYS 2425; and Social and Behavioral Sciences ECO 2301 or ECO 2314. See the Academic Services section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of eight (8) hours of approved, senior-level Electrical Engineering electives are required.

## Bachelor of Science (B.S.) Major in Industrial Engineering

**Minimum required: 135 semester hours**  
**General Requirements**

- In order to declare Industrial Engineering as a major, students must meet one of the following prerequisites:

- ACT Math score of 24 or higher,
- SAT Math score of 520 (re-centered) or higher, or
- credit for one of the following math courses with a grade of "C" or higher:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

Students who do not meet the above prerequisites may choose Pre-Industrial Engineering as their major. Pre-Industrial Engineering students who complete one of the following math courses with a grade of "C" or higher may declare Industrial Engineering as their major:

MATH 1315	College Algebra	3
MATH 1317	Plane Trigonometry	3
MATH 1319	Mathematics for Business and Economics I	3
MATH 1329	Mathematics for Business and Economics II	3

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- Industrial Engineering degrees include all the courses required for an Applied Mathematics Minor.

Freshman				
	First Semester	Hours	Second Semester	Hours
CHEM 1341	3	PHYS 1430	4	
CHEM 1141	1	ENG 1320	3	
ENG 1310	3	ENGR 2300	3	
ENGR 1313	3	HIST 1310	3	
MATH 2471	4	MATH 2472	4	
US 1100	1			
		15		17

Sophomore				
	First Semester	Hours	Second Semester	Hours
PHYS 2425	4	CS 1428	4	
COMM 1310	3	MATH 3323	3	
MATH 3377	3	ENGR 3375	3	
POSI 2310	3	Select one of the following:	3	
MFGE 2332	3	ART 2313		
HIST 1320	3	DAN 2313		
		MU 2313		
		TH 2313		
		ECO 2301 <sup>1</sup>	3	
		POSI 2320	3	
		19		19

Junior				
	First Semester	Hours	Second Semester	Hours
ENGR 3311	3	IE 3310	3	
ENGR 3315	3	IE 3330	3	

ENGR 3373	3	IE 3340	3
IE 3320	3	IE 3360	3
PHIL 1305 or 1320	3	English Literature <sup>1</sup>	3
15		15	

First Semester		Second Semester	
Hours	Hours	Hours	Hours
IE 4310	3	IE 4320	3
IE 4355	3	IE 4350	3
IE 4380	3	IE Elective <sup>2</sup>	5
IE Elective <sup>2</sup>	3	IE 4390	3
MATH 3373	3	MFGE 4396	3
IE 4370	3		
18		17	

Total Hours: 135

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: mathematics- MATH 2471; life and physical sciences- CHEM 1341 and PHYS 1430; and social and behavioral sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of eight (8) hours of approved, senior-level Industrial Engineering electives are required.

## Bachelor of Science (B.S.) Major in Manufacturing Engineering (General Manufacturing Concentration)

### Minimum required: 132 semester hours General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. Manufacturing Engineering degrees include all the courses required for an Applied Mathematics Minor.

Freshman			
First Semester	Hours	Second Semester	Hours
CHEM 1341	3	PHYS 1430	4
CHEM 1141	1	ENGR 2300	3
ENGR 1313	3	ENG 1320	3
MATH 2471	4	MATH 2472	4
US 1100	1	COMM 1310	3
ENG 1310	3		
15		17	

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
IE 3320	3	CS 1428	4	MGT 3303	3

MATH 3323	3	ENGR 3375	3	MATH 3377	3
MFGE 2332	3	Select one of the following:	3		
PHYS 2425	4	ART 2313			
HIST 1310	3	DAN 2313			
		MU 2313			
		TH 2313			
		ECO 2301 <sup>1</sup>	3		
		HIST 1320	3		
16		16		6	

First Semester		Second Semester		Junior	
Hours	Hours	Hours	Hours	Hours	Hours
ENGR 3311	3	ENGR 3315	3		
ENGR 3373	3	IE 3330	3		
Math/Science Elective <sup>2</sup>	3-4	IE 3360	3		
PHIL 1305 or 1320	3	MFGE 4365	3		
MFGE 3316	3	POSI 2310	3		
15		15		6	

First Semester		Second Semester		Senior	
Hours	Hours	Hours	Hours	Hours	Hours
MFGE 4363	3	MGT 4330	3		
MFGE 4395	3	MFGE 4376	3		
MFGE Electives <sup>3</sup>	3	MFGE 4396	3		
POSI 2320	3	MFGE electives <sup>3</sup>	5		
IE 4355	3	English Literature <sup>1</sup>	3		
15		17		6	

Total Hours: 132

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: mathematics- MATH 2471; life and physical sciences- CHEM 1341 and PHYS 1430; and social and behavioral sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of three (3) hours of approved Math/Science electives are required.

<sup>3</sup> A minimum of eight (8) hours of approved, senior-level Manufacturing Engineering electives are required.

# Bachelor of Science (B.S.) Major in Manufacturing Engineering (Mechanical Systems Concentration)

**Minimum required: 132 semester hours**

## General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. Manufacturing Engineering degrees include all the courses required for an Applied Mathematics Minor

### Freshman

First Semester	Hours	Second Semester	Hours
CHEM 1341 <sup>1</sup>	3	ENGR 2300	3
CHEM 1141	1	MATH 2472	4
ENGR 1313	3	PHYS 1430 <sup>1</sup>	4
MATH 2471	4	COMM 131C	3
US 1100	1	ENG 1320	3
ENG 1310	3		
15		17	

### Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
MFGE 2332	3	IE 3330	3	MATH 3377	3
MATH 3323	3	ENGR 3375	3	PHIL 1305 or 1320	3
IE 3320	3	CS 1428	4		
PHYS 2425	4	ECO 2301 <sup>1</sup>	3		
HIST 1310	3	HIST 1320	3		
16		16		6	

### Junior

First Semester	Hours	Second Semester	Hours
MFGE 3316	3	MFGE 4365	3
ENGR 3311	3	MFGE 4396	3
ENGR 3315	3	IE 3360	3
ENGR 3373	3	PHYS 3315	3
POSI 2310	3	English Literature <sup>1</sup>	3
15		15	

### Senior

First Semester	Hours	Second Semester	Hours
MFGE 4357	3	MFGE 4355	3
MFGE 4363	3	MFGE 4376	3
MFGE 4395	3	MFGE Electives <sup>2</sup>	5

IE 4355	3	POSI 2320	3
MFGE Electives <sup>2</sup>	3	Select one of the following:	3
		ART 2313	
		DAN 2313	
		MU 2313	
		TH 2313	
15		17	

Total Hours: 132

- 1 Departmental requirements that also satisfy the general education core curriculum requirements for the following components: mathematics- MATH 2471; life and physical sciences- CHEM 1341 and PHYS 1430; and social and behavioral sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.
- 2 A minimum of eight (8) hours of approved, senior-level Manufacturing Engineering electives are required.

# Bachelor of Science (B.S.) Major in Manufacturing Engineering (Semiconductor Manufacturing Concentration)

**Minimum required: 139 semester hours**

## General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. Manufacturing Engineering degrees include all the courses required for an Applied Mathematics Minor.

### Freshman

First Semester	Hours	Second Semester	Hours
CHEM 1341 <sup>1</sup>	3	ENGR 2300	3
CHEM 1141	1	MATH 2472	4
ENGR 1313	3	PHYS 1430 <sup>1</sup>	4
MATH 2471	4	COMM 131C	3
US 1100	1	ENG 1320	3
ENG 1310	3		
15		17	

### Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
IE 3320	3	CS 1428	4	MGT 3303	3
MATH 3323	3	ENGR 3375	3	MATH 3377	3

MFGE 2332	3 Select one of the following:	3 EE 2400	4
PHYS 2425	4 ART 2313	PHIL 1305 or 1320	3
HIST 1310	3 DAN 2313 MU 2313 TH 2313		
	ECO 2301 <sup>1</sup>	3	
	HIST 1320	3	
	16	16	13

Junior

First Semester	Hours	Second Semester	Hours
ENGR 3311	3 MFGE 4392		3
ENGR 3373	3 MFGE 4365		3
TECH 4374 or EE 2420	3-4 IE 3330		3
Math/ Science Elective <sup>2</sup>	3-4 IE 3360		3
MFGE 3316	3 POSI 2310		3
	15		15

Senior

First Semester	Hours	Second Semester	Hours
IE 4355	3 MFGE Electives <sup>3</sup>		5
MFGE 4363	3 MGT 4330		3
MFGE 4395	3 English Literature <sup>1</sup>		3
ENGR 3315	3 MFGE 4376		3
POSI 2320	3 MFGE 4396		3
	15		17

Total Hours: 139

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: mathematics- MATH 2471; life and physical sciences- CHEM 1341 and PHYS 1430; and social and behavioral sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

<sup>2</sup> A minimum of three (3) hours of approved Math/Science electives are required.

<sup>3</sup> A minimum of five (5) hours of approved, senior-level Manufacturing Engineering electives are required.

## Department of Engineering Technology

Roy F. Mitte Building Room 2240  
T: 512.245.2137 F: 512.245.3052  
[www.txstate.edu/technology](http://www.txstate.edu/technology) (<http://www.txstate.edu/technology>)

The mission of the Department of Engineering Technology is to prepare students for technical/professional careers in industry and education.

The mission is accomplished through a dedicated faculty offering programs in specialized areas with a formal, technical focus. Upon graduation, students are prepared to assume positions of professional responsibility in the areas of manufacturing, construction, concrete industry management, computer aided technologies, electronics, and education. Fourteen well-equipped technical laboratories serve to educate students in the techniques and processes used by contemporary world class industries.

## The Bachelor of Science major in Concrete Industry Management

The Bachelor of Science major in Concrete Industry Management (CIM) prepares students who are grounded in basic construction management, who are knowledgeable in concrete technology and techniques and who are able to manage people and systems to promote products and devices related to the concrete industry. CIM professionals find a wide array of opportunities in the concrete industry including positions in sales, operations, technical services and construction management. This degree program is accredited by the National Steering Committee of CIM.

## The Bachelor of Science major in Construction Science and Management

The Bachelor of Science major in Construction Science and Management (CSM) prepares students to enter professional careers in the construction industry. Graduates may become construction project managers, estimators, schedulers, field engineers, general and/or subcontractors, code inspectors, material suppliers and technical sales representatives. Students learn the technical aspects of how construction projects are built through classes in residential, commercial, engineering and industrial construction, and learn how to manage construction through the required business administration minor and courses in estimating, scheduling and project management. Career opportunities are many in this industry, which comprises 16% of the Gross National Product. Students entering this degree need to successfully complete the Pre-Construction Curriculum before they will be allowed to register for advanced Construction Science and Management courses. Also, a sophomore level internship is required, where students spend 10 weeks and 400 hours working in the construction industry. Students interested in pursuing the Construction Science and Management degree program can receive more information on the major contacting a CSM Faculty Advisor. This degree program is accredited by the American Council for Construction Education.

## The Bachelor of Science major in Technology Management

The Bachelor of Science major in Technology Management prepares students for professional management positions in industry, or to become public school teachers in the field of Technology Education. Industry bound graduates will be prepared for work involving materials, processes, product design and development, quality management, safety management, supply chain issues, facility planning, and similar concepts in industrial management. Graduates of the Technology Education track will be prepared to teach a variety of industry and technology related subjects in Texas public schools. This degree has three specializations, Manufacturing Technology, Electronics Technology, and Technology Education. Students interested in pursuing the Bachelor of Science in Technology Management should see a faculty advisor in the Department of Engineering Technology for more details.

## The Bachelor of Science in Technology major in Engineering Technology

The Bachelor of Science in Technology major in Engineering Technology provides students with the technical background to work with engineers in planning production processes, developing tooling, establishing quality assurance procedures, developing safety programs, establishing work methods, and setting time standards. Students can specialize in Electrical Engineering Technology, Civil Engineering Technology, Environmental Engineering Technology, Manufacturing Engineering Technology, and Mechanical Engineering Technology. The Bachelor of Science in Technology major in Industrial Technology prepares students for work in industry in materials, processes, industrial safety, and concepts of industrial management. This degree has program majors in Manufacturing, and General Technology. The General Technology major, under Industrial Technology, can be customized to meet specific student needs offering opportunities in electronics, industrial safety, education, etc. Students interested in exploring such opportunities should see an Engineering Technology Department advisor for more details.

## Teacher Certification

A student seeking certification to teach at the secondary level must take:

CI 3325	Adolescent Growth and Development	3
CI 4332	Secondary Teaching: Curriculum and Technology	3
CI 4343	Instructional Strategies for the Secondary Teacher	3
CI 4370	Classroom Management, Ethics, and Legal Issues in Secondary Teaching	3
RDG 3323	Teaching Reading in the Content Areas	3
EDST 4681	Student Teaching 8-12	6

The student who has further questions should see the undergraduate advisor in Engineering Technology.

## Bachelor of Science (B.S.)

- Major in Concrete Industry Management (p. 524)
- Major in Construction Science and Management (p. 525)
- Major in Technology Management (Electronics Technology Concentration) (p. 526)
- Major in Technology Management (Manufacturing Technology Concentration) (p. 526)
- Major in Technology Management (Teacher Certification in Technology Education, Grades 6-12) (p. 527)

## Bachelor of Science in Technology (B.S.T.)

- Major in Engineering Technology (Civil Engineering Technology Specialization) (p. 528)
- Major in Engineering Technology (Electrical Engineering Technology Specialization) (p. 528)
- Major in Engineering Technology (Environmental Engineering Technology Specialization) (p. 529)
- Major in Engineering Technology (Manufacturing Engineering Technology Specialization) (p. 530)
- Major in Engineering Technology (Mechanical Engineering Technology Specialization) (p. 530)

## Minor

- Technology (p. 531)

## Certificate

- Driver and Traffic Safety Education (p. 531)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

**Subjects in this department include: CIM (p. 518), CSM (p. 519), TECH (p. 520).**

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## Courses in Concrete Industry Management (CIM)

### CIM 3330. Concrete Construction Methods.

This course covers forming, shoring, placing and reinforcing operations. Transporting, placing, consolidating, finishing, jointing and curing concrete for cast-in-place foundations, pavements, slabs on ground, structural frames, and other structural members are studied. Other topics include waterproofing concrete foundations and erecting precast concrete members. Prerequisite: CIM 3420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIM 3340. Understanding the Concrete Construction System.

A detailed look at how the concrete construction industry works. The course includes a review of model building codes, building officials and their function, concrete industry codes and standards, concrete construction processes, quality assurance systems, contract documents, estimating, construction scheduling and concrete construction markets. Prerequisite: MATH 2328 and CIM 3420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIM 3366. Applications of Concrete in Construction.

This course is a detailed study of the many uses of concrete in the construction of buildings, pavements and other facilities. Emphasis will be placed on the advantages, disadvantages, and unique problems faced by materials suppliers, contractors and design professionals when concrete is chosen for specific applications. Prerequisite: CIM 3330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CIM 3420. Fundamentals of Concrete: Properties and Testing.

This course examines effects of concrete-making materials (aggregates, cements, admixtures, etc.) on the properties of fresh and hardened concrete. Concrete mixture proportioning calculations and statistical analysis of strength tests are also studied. Prerequisite: CSM 2342

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**CIM 4310. Senior Concrete Lab.**

This course provides students with an opportunity to further develop their technical and laboratory knowledge and pursue a project of individual interest. A formal report/presentation will be required at the conclusion of the course. Prerequisites: CIM 3366 and CIM 3420 with grades of C or better

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 4330. Management of Concrete Products – Ordering and Scheduling.**

This course is designed to provide the student with a basic understanding of managing the ordering and delivery process common to all concrete products. Emphasis will be in planning, organizing and controlling at both the first-line supervisory and managerial levels.

Prerequisites: CIM 3340 and MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 4340. Concrete Problems: Diagnosis, Prevention and Dispute Resolution.**

Course involves diagnosing/preventing problems related to concrete production, testing, construction and performance. Students learn to identify causes of fresh and hardened concrete problems, i.e. fast and slow setting, air content variations, low strength, cracking and scaling. Pre-job conferences and dispute resolution methods are examined.

Prerequisite: CIM 3366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 4398. Capstone.**

An intensive study of a problem(s) appropriate to the major/student's career interests. Requires knowledge from previous technical/business coursework. Solution(s) for the problem(s) will be presented to an industry committee. Presentation must emphasize depth of analysis, completeness/effectiveness of solution, and presentation skills.

Prerequisite: CIM 4330. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Construction Science and Management (CSM)

**CSM 1260. Introduction to the Construction and Concrete Industry.**

This is an introductory course for Construction and Concrete Industry Management (CIM) majors. Residential, commercial, heavy, civil and highway construction is explored including the concrete industry. The role of the contractor, architect/engineer and owner are covered including contracts, careers, sustainability and economic importance of the construction industry

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 2160. Introduction to Construction Surveying and Site Layout.**

Common construction surveying and site layout techniques are studied using both optical levels and total stations. Benchmarks, building lines, property lines, differential and profiling are discussed in lecture with applied exercises performed in the laboratory. Prerequisite: Pre-Construction or Instructor's Approval

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2313. Architecture Design I - Construction Documents.**

Students are introduced to the language and process of producing architectural construction documents in residential projects utilizing computers and CAD software. Site plans, floor plans, sections, elevations, and details are drawn individually and as a team as orthographic projection theory and its importance in resolving complex building geometry are covered

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2342. Construction Materials and Processes.**

This course will introduce students to various types of construction materials including ceramics, ferrous, non-ferrous, and organic materials used in construction. Their properties, working characteristics and processes used to manufacture and assemble these materials are studied. Laboratory activities are used to reinforce lecture material.

Prerequisites: PHYS 1315/PHYS 1115 or PHYS 1410 or PHYS 1430 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2360. Residential Construction Systems.**

A residential construction course, which deals with interpreting plans and specifications, along with studying site work, foundations, walls, roofing, ceilings, floor and finishing systems. Also, residential MEP systems are covered along with applicable building codes and construction financing.

Prerequisite: CSM 2342 or Instructor's Approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 3360. Structural Analysis.**

This is a structural engineering fundamentals class to include design loads, reactions, force systems, functions of a structure, and both the analysis and design of determinate structures by classical and modern techniques. Prerequisites: Completion of Pre-Construction coursework and TECH 2351 with a grade of "C" or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3361. Commercial Building Construction Systems.**

This is a commercial building construction systems class that deals with soils, site work, heavy foundations, steel, reinforced concrete and pre-cast structures along with common assemblies. Commercial MEP's are studied along with CSI master format, as-built and shop drawings, schedule of values, AIA documents and appropriate building codes.

Prerequisite: Pre-Construction or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3363. Heavy, Civil and Highway Construction Systems.**

Selection, acquisition and capabilities of heavy construction equipment are presented. Applications of economics to performance characteristics and production of equipment is discussed. Sector-specific construction management methods are covered, including unit price estimating, equipment fleet design, repetitive scheduling and major components of highways, bridges and engineered facilities. Prerequisite: Pre-Construction or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 3366. Soils and Foundations.**

Properties of subsurface materials and the principles of subsurface construction are studied. Topics include soil classification and testing, soil mechanics and foundation systems, including site layout, excavation, caissons, piles, slurry wall, slab and spread footings. Prerequisite: Pre-Construction and TECH 2351 with a grade of "C" or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3367. Mechanical, Electrical and Plumbing Systems.**

This course covers typical Mechanical, Electrical and Plumbing (MEPs) systems found in residential and commercial construction along with design and installation methods used to conserve both energy and water in new and remodeled structures. Prerequisites: Pre-Construction coursework or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4313. Architectural Design II - Technology in Construction.**

Students create individual and group commercial projects which include plans, elevations, sections, details, and 3D drawings utilizing 3D building information modeling (BIM) and other current technologies used in the industry. Structural, mechanical, electrical, plumbing, accessibility, and sustainable building issues are discussed. Prerequisite: CSM 2313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4360. Senior Construction Management Capstone.**

Students work in groups to prepare a bid proposal based on a real life construction project involving contract negotiations, construction documents interpretation, estimating, bidding, scheduling and developing safety and quality control plans. Emphasis is on developing leadership, team building, and written and oral communication skills. For senior construction majors. Prerequisites: Pre-Construction coursework or MATH 2471 and CSM 4313, CSM 4361, CSM 4364, CSM 4369 or Instructor's Approval. Recommended TECH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4361. Construction Estimating.**

The fundamentals of construction estimating are covered including feasibility, conceptual, square feet, cubic feet, unit in place, preliminary, engineering, range and contractor's detail bid estimates. Plans and specifications are used along with contemporary estimating software to develop estimates commonly used in the construction industry.

Prerequisite: Pre-Construction and CSM 3361 or Instructor's Approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4364. Construction Project Management and Scheduling.**

Concepts of construction management are studied beginning with contract documents through the effective management of manpower, machines, material and money necessary to complete construction projects on time and within budget. Gantt Charts and PERT/CPM schedules are developed, using contemporary software. Prerequisites: Pre-Construction coursework and CSM 4361 (concurrent enrollment allowed) or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4368. Environmentally Conscious Design and Construction.**

This course covers environmentally sustainable practices used in building design and construction. THE LEED system will be used to guide the course, which covers aspects of sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality and the CAD design process. Prerequisite: Pre-Construction or ID 2329 and CSM 2313 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CSM 4369. Construction Contracts, Liability and Ethics.**

Legal aspects of design and construction contract documents are presented, including contract formation, interpretation, rights and duties and changes. Legal liabilities are explored in the context of professional ethics for design firms and constructors. Prerequisite: Pre-Construction Coursework or CIM 3340 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Courses in Technology (TECH)

**TECH 1311. Engineering Design Graphics.**

This course provides an introduction to the fundamentals of technical drawing and the related graphical tools used to communicate engineering design concepts. The topics include two dimensional graphics, orthographic projections, geometric dimensioning and tolerancing, computer-aided graphics, parametric solid modeling, and introduction to three dimensional graphics

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 1330. Assembly Processes.**

Basic assembly process to include gas, arc, resistance, thermite, induction, and forge welding; weld-ability, weld metallurgy, weld symbology, and weld testing; brazing; soldering; mechanical fastening to include threaded fasteners, rivets, shrink and press fits, seams, staples, crimping, and structural adhesives. Principles of joint design and cost estimation. An overview of electronics assembly processes and automated assembly

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 1363. Manufacturing Processes I.**

The course will provide an overview of the manufacturing processes. Major emphasis is placed on machining theory, setup and tooling. Metal forming and fabrication procedures are introduced. Joining and assembly includes welding, mechanical fastening, adhesive bonding and surface finishing concepts. Laboratory demonstrations and tutorials involve machining, joining and forming techniques

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 1393. Manufacturing Processes II.**

The course involves the fundamentals of casting and molding processes. Emphasis is placed on casting terminology, molding sand, molding processes, pattern making, coremaking and quality control. Ferrous and non-ferrous alloy composition and casting geometry are explored. Plastic and composite forming concepts are included. Microelectronic manufacturing principles and processes are introduced. Prerequisite: TECH 1363

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 2190. Industrial Internship.**

This course is a supervised experiential learning course in various technical disciplines as appropriate to a student's degree program. This work integrated learning course helps the student link theory with practice. Repeatable for credit. Prerequisites: 45 hours completed with at least 12 having been completed at Texas State and a minimum major GPA of 2.25

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 2310. Introduction to Computer-Aided Design (CAD).**

Principles of 3D modeling are introduced in the preparation of drawings for manufacturing processes. Emphasis includes the parametric solid modeling of machine elements and geometric dimensioning and tolerancing. The laboratory component involves production of engineering drawings and simulations connecting this course to computer-aided engineering. Prerequisite: TECH 1311 or ENGR 1313 or instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 2330. Fundamentals of Material Removal.**

Fundamentals of Material Removal. (3-0) An overview of the micro and macro structure of materials is studied. Assessment of materials with regard to their chemical and mechanical properties and how these properties relate to machining is explored. Machining conditions with regard to feed, speed, surface finish, tooling requirements, horsepower capabilities, time, and cost analysis complete the class. Prerequisite: MATH 1315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 2344. Power Technology.**

This class deals with understanding the basic laws of thermo-dynamics. It probes efficiency and examines energy-converting devices from the inputs, processes, outputs model. Internal combustion engines, electric motors, hydraulic, pneumatic, and gearing systems, and fuel analysis are reviewed from a practical and theoretical perspective. Prerequisites: MATH 1315 and PHYS 1315 and 1115 or PHYS 1410 or PHYS 1430

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 2351. Statics and Strength of Materials.**

Course covers principles of statics and strength of materials to include forces, equilibrium, friction, centroids, and stress/strain relationships, axial stress and deformation, thermal stress and deformation, stress concentrations, factor of safety, torsional stress, beam stresses and combined stress. Prerequisites: CSM 2342 or ENGR 2300, PHYS 1315 and PHYS 1115 or PHYS 1410 or PHYS 1430, all courses with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 2370. Electricity/Electronics Fundamentals.**

Fundamentals of safety, Ohm's Law, series, parallel, and seriesparallel circuits, meters, relays, and basic transistor circuits. 3310 Industrial Design. (3-0) The fundamentals, elements, and principles of design applied in creative ways to industrial design problems emphasizing function, form, and aesthetics. Ergonomics, product life cycles, environmental concerns, and use of elementary statics for stress analysis. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** ENGR 2305

**TECH 3322. Development of Technology.**

The role of technology in the development of Western World culture is studied from a technical perspective. Social repercussions resulting from the introduction of foundational technical developments are reviewed. Examples of technical areas examined are agriculture, transportation, manufacturing, engineering, defense, and communications. Readings focus discussions and papers on specific topics and encourage synthesis level understanding. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TECH 3344. Applied Thermofluids.**

Basic concepts, first and second laws of thermodynamics, thermodynamic properties, heat transfer by conduction, convection and radiation, fluid statics and fluid dynamics are studied. Prerequisites:

TECH 2344 and PHYS 1430

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3345. Principles of Lean Systems.**

The course provides an in-depth understanding of the lean principles as they apply to manufacturing and service organizations with emphasis on lean tools and concepts such as Value Stream Mapping, 5S, kaizen, waste, takt/cycle time, visual control, six-sigma, mistake proofing, single piece flow, cell design and pull systems. Prerequisite: TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3357. Facilities Planning and Design.**

This project-based course provides students with a practical knowledge of designing efficient facility layout and material handling system.

Systematic layout planning (SLP) based on a product and process information is studied in depth. Simulation tools are used for flow analysis. Prerequisites: TECH 2310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3364. Quality Assurance.**

This course covers the principles of quality management to include basic probability and statistics concepts, control charts for attributes and variables, sampling plans, quality audits and costs. The laboratory component of this class includes exercises that provide exposure to basic metrology and data collection

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3370. Electronics.**

This course is a study of the characteristics of basic electronic circuits and their component parts. Course content includes the use of electronic test equipment, inductance, capacitance, reactance, impedance, rectification, switching, amplification, and electronic circuit fabrication.

Prerequisite: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 3373. Communication Systems.**

This course deals with basic principles of communication systems. Specific topics include analysis of signals and systems, modulation techniques (digital and analog), analysis of transmitters and receivers, networking, and wireless communication systems. Prerequisites:

TECH 2370 or EE 2400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4197. Special Problems.**

The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair. Repeatable for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4330. Foundry & Heat Treatment.**

The technical aspects of foundry and heat treatment of ferrous and non-ferrous metals are reviewed. Students gain proficiency with interpretation of binary phase diagrams, mathematical modeling of gate and runner systems, micro-structural analysis, process cost evaluation, sand testing, investment casting and other technical processes. Technical report writing is an important part of this class. Data collection and data analysis with experiments allow students to develop appropriate techniques for presenting technical data in report format. Prerequisites: TECH 2310, ENGR 2300 and TECH 2351 or MFGE 2332 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4345. Method Engineering and Ergonomics.**

The course provides an in-depth understanding of the lean principles as they apply to manufacturing and service organizations with emphasis on lean tools and concepts such as Value Stream Mapping, 5S, kaizen, waste, takt/cycle time, visual control, six-sigma, mistake proofing, single piece flow, cell design and pull systems. Prerequisite: TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4362. Manufacturing Process Engineering.**

This course will provide students with fundamentals of manufacturing processes planning and engineering. Major emphasis will be placed on make-buy analysis, tolerance analysis and dimensional control, tool and fixture design, process and material selection, design for manufacturing, design for assembly, and process planning. Prerequisites: TECH 1393 and TECH 2310

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4365. Machine Elements: Dynamics and Design.**

Principles of the design of mechanical components; theories of failure; material selection; design of shafts, gears, cams, fasteners, springs and brakes; dynamics; balancing of machinery and vibration control are studied. Prerequisites: TECH 2310 and TECH 2351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4367. Polymer Properties and Processing.**

Structure, physical & mechanical properties, design considerations and processing methods for polymer-based materials are presented. Processing methods include: injection molding, blow molding, thermoforming, compression molding, extrusion, filament winding, lay-up methods, vacuum bag molding and poltrusion. Prerequisite: ENGR 2300

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter



**TECH 4372. Electronic Devices and Circuits.**

This course covers transistor configurations, field effect transistors and circuits, voltage regulation, amplifier feedback principles, operational amplifiers and circuitry, and unijunction transistors and applications.

Prerequisites: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4373. Control Systems and Instrumentation.**

This course is an introduction to modern control systems and instrumentation. Topics covered include transducers, sensors, actuators, instrumentation, open and closed loop control systems, PID controllers, programmable logic controllers and ladder logic, and computer interface software and hardware. Prerequisites: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4374. Digital Systems.**

Solid state digital electronics from basic concepts to current industrial needs in terms of logic gates (all types), number systems counters (all types), registers (all types), sequential control circuits, and shift register generator. Prerequisite: TECH 2370 or PHYS 2425

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4380. Industrial Safety.**

Introduction to the field of industrial safety with emphasis on compliance with Federal and State regulations. Prerequisite: Junior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4383. Driver and Traffic Safety Education I.**

Content, methods, and materials for instruction in the classroom phase of driver education in Texas. Topics include Texas traffic law; Texas Education Agency standards for high school driver education; driver behavior, attitude, and psychomotor skills; and safety in the highway transportation system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4385. Driver and Traffic Safety Education II.**

Content, methods and materials for instruction in the laboratory phase of driver education in Texas. Topics include in-car instruction, multi-car range, and simulation. During laboratory sessions participants will observe in-car instructors, peer teach in the car, and teach a high school student how to drive. TECH 4383 and 4385 will be taken simultaneously. Prerequisites: TECH 4383 and a good driving record

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4387. Motorcycle Safety and Rider Education.**

Techniques and methods of teaching beginner rider education. Includes classroom techniques as well as laboratory experience in on-street and off-street riding. Not applicable to the BS in Technology program

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4389A. Advanced Residential Construction.**

Advanced concepts in residential construction are covered including land acquisition, land development, infrastructure, deed restrictions, cash flow, financial forecasting, marketing, scheduling and sustainable building practices. Prerequisite: CSM 2360 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TECH 4389B. Construction Industry Best Practices.**

This course will cover current issues facing the construction industry today including the best practices used to resolve these issues. Several industry leaders will lecture on these contemporary problems facing the industry. Restricted to Junior level Construction Science and Management Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TECH 4390. Internship.**

Supervised on-the-job professional learning experience in construction, manufacturing, electronics, and other technical areas. This course provides practical work experience in their particular field of interest. Repeatable for credit. Prerequisites: Consult internship coordinator. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment

**Permitted|Time Conflicts Permitted|Writing Intensive**

**Grade Mode:** Standard Letter

**TECH 4392. Micro and Nano Manufacturing.**

This course covers the basic principles of micro and nano manufacturing. Emphasis is placed on the process descriptions, terminology, equipment requirements, and processes for micro and nano systems. Basic physics and process chemistry is combined with control schemes to arrive at overall systems descriptions. Prerequisites: CHEM 1335 or CHEM 1341, and PHYS 1325 or PHYS 1420 or PHYS 2425

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4393. Driver and Traffic Safety Education III.**

Content, procedures, and administration of multi-phase driver education programs. Topics include scheduling, maintenance and operation of laboratory equipment, record keeping, lesson plan development, and driver education for the handicapped. Practicum in classroom and/or simulation instruction. Not applicable to the Bachelor of Science in Technology degree program. Prerequisite: TECH 4383, TECH 4385, and TECH 4393 may be taken simultaneously

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4394. Microelectronics Manufacturing II.**

This is an intermediate level course in integrated circuit processing. Topics covered include: atomic models for diffusion, oxidation and ion implantation; topics related to thin film processes such as chemical vapor deposition, physical vapor deposition; planarization by chemical-mechanical polishing and rapid thermal processing; and process integration for bipolar and MOS device fabrication. Students will design processes and model them using a simulation tool such as SUPREM

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TECH 4395. Automated Manufacturing Systems I.**

This course primarily deals with automation in industrial systems. In particular, this course focuses on automation and control technologies in manufacturing systems at machine and device levels. Included in its structure are areas such as fundamentals of industrial automation, sensors and actuators, numerical control, robotics, and PLC.

Prerequisites: TECH 1393 and TECH 2310 or TECH 4373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4396. Automated Manufacturing Systems II.**

This course primarily deals with automation in industrial systems. In particular, this course focuses on automation and control technologies at a system level. This course includes topics such as simulation of manufacturing systems, flexible manufacturing systems, automated quality control, automated identification, and automated material handling. Prerequisites: TECH 4395

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4397. Special Problems.**

The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4398. Senior Design.**

This course deals with application of technical and non-technical skills and knowledge using a multidisciplinary team-based approach for solving real-world problems related to product and process development. The topics include systematic product development, development of business plans, project management, cost estimation, documentation and presentation, prototyping, fabrication and concurrent engineering. Prerequisites: TECH 4395 or TECH 4372 or EE 3400 or GEO 4313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4399. Seminar in Technology.**

The topics for this course will vary. The course will involve the identification of the topic, its nomenclature, its processes, tools, equipment or materials, and its application to technology. The topic may apply to either the certification program or technology program or to both. A final report summary or presentation will conclude each seminar. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Bachelor of Science (B.S.) Major in Concrete Industry Management

**Minimum required: 120 semester hours**

## General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

2. Departmental requirements that also satisfy general education core curriculum requirements:

MATH 2417	Pre-Calculus Mathematics	4
PHYS 1315	General Physics I	3
ECO 2314	Principles of Microeconomics	3

3. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

4. If two years of the same modern language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

5. A Minor in Business Administration is required for this degree. Courses for the minor in Business Administration are included in the following degree plan.

**Freshman**

First Semester	Hours	Second Semester	Hours
US 1100	1	ENG 1320	3
ENG 1310	3	HIST 1310	3
POSI 2310	3	MATH 2417	4
CHEM 1335	3	PHYS 1315 & PHYS 111	4
CHEM 1141	1		
CSM 1260	2		
13		14	

**Sophomore**

First Semester	Hours	Second Semester	Hours	Summer	Hours
English Literature	3	POSI 2320	3	TECH 2190	1
HIST 1320	3	COMM 131C	3		
MATH 2321	3	MATH 2328	3		
ACC 2361	3	CSM 2313	3		
PHYS 1325 & PHYS 1125	4	CIM 3420	4		
16		16			1

**Junior**

First Semester	Hours	Second Semester	Hours
CIM 3340	3	Select one of the following:	3
MGT 3303	3	ART 2313	3

ACC 2362	3	DAN 2313	
TECH 2351	3	MU 2313	
CIM 3330	3	TH 2313	
		ECO 2314	3
		CIM 3366	3
		CIM 4330	3
	15		12

**Senior**

First Semester	Hours	Second Semester	Hours
MKT 3343	3	TECH 3364	3
CIM 4398	3	TECH 4380	3
CIM 4310	3	FIN 3325	3
CIM 4340	3	BLAW 2361	3
CSM 4369	3	PHIL 1305 or 1320	3
ECO 2315	3		
	18		15

Total Hours: 120

# Bachelor of Science (B.S.) Major in Construction Science and Management

**Minimum required: 120 semester hours**

## General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same modern language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. A Minor in Business Administration is required for this degree. Courses for the minor in Business Administration are included in the degree plan below.
4. Effective Fall 2010: No "D" grades received at other institutions will be credited towards the major.
5. Effective Fall 2010: Students will enter the 30 semester hour Pre-Construction Curriculum, which will consist of:

MATH 2328	Elementary Statistics	3
MATH 2417	Pre-Calculus Mathematics	4
PHYS 1315 & PHYS 1115	General Physics I and General Physics I Laboratory	4
CHEM 1335 & CHEM 1141	Engineering Chemistry and General Chemistry Laboratory I	4
PHYS 1325 & PHYS 1125	General Physics II and General Physics II Laboratory	4
CSM 1260	Introduction to the Construction and Concrete Industry	2
CSM 2313	Architecture Design I - Construction Documents	3
CSM 2342	Construction Materials and Processes	3

CSM 2360	Residential Construction Systems	3
Total Hours		30

No grade lower than a "C" will be accepted and a 2.5 GPA must be maintained in these classes before a student will be allowed to enroll in advanced level Construction courses.

6. After completing the Pre-Construction Curriculum, students will be allowed to enter the Bachelor of Science Degree in Construction Science and Management, and will be allowed to enroll in the following Construction classes:

CSM 2160	Introduction to Construction Surveying and Site Layout	1
CSM 3360	Structural Analysis	3
CSM 3361	Commercial Building Construction Systems	3
CSM 3363	Heavy, Civil and Highway Construction Systems	3
CSM 3366	Soils and Foundations	3
CSM 3367	Mechanical, Electrical and Plumbing Systems	3
CSM 4360	Senior Construction Management Capstone	3
CSM 4361	Construction Estimating	3
CSM 4364	Construction Project Management and Scheduling	3
CSM 4368	Environmentally Conscious Design and Construction	3
CSM 4369	Construction Contracts, Liability and Ethics	3
Total Hours		31

**Freshman**

First Semester	Hours	Second Semester	Hours
CSM 1260	2	MATH 2328	3
PHYS 1315 & PHYS 111	4	PHYS 1325 & PHYS 111	4
MATH 2417	4	CSM 2342	3
US 1100	1	ENG 1320	3
ENG 1310	3	CSM 2313	3
POSI 2310	3		
	17		16

**Sophomore**

First Semester	Hours	Second Semester	Hours	Summer	Hours
ACC 2301	3	COMM 1310	3	TECH 2190	1
CHEM 1335 & CHEM 114	4	TECH 2351	3		
BLAW 2361	3	HIST 1310	3		
POSI 2320	3	PHIL 1320	3		
CSM 2360	3	CSM 3361	3		
		CSM 2160	1		
	16		16		1

**Junior**

First Semester	Hours	Second Semester	Hours
CSM 3360	3	CSM 3367	3
CSM 3363	3	CSM 4313	3
CSM 3366	3	CSM 4361	3

ECO 2301	3 English Literature <sup>1</sup>	3	
	HIST 1320	3	
		12	15
<b>Senior</b>			
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
CSM 4368	3	CSM 4360	3
MGT 3303	3	Select one of the following:	3
CSM 4369	3	ART 2313	
TECH 4380	3	DAN 2313	
CSM 4364	3	MU 2313	
		TH 2313	
		MKT 3343	3
		CIS 3317	3
		15	12

Total Hours: 120

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 2417; Life and Physical Sciences-CHEM 1341 and PHYS 1315; Language, Philosophy and Culture- PHIL 1320; and Social and Behavioral Sciences- ECO 2301. See the Academic Services section of this catalog for the English literature requirements.

## Bachelor of Science (B.S.) Major in Technology Management (Electronics Technology Concentration)

**Minimum required: 120 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same modern language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<b>Freshman</b>			
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
MATH 1315	3	MATH 2328	3
Select one of the following:	3	PHYS 1315	3
ART 2313		PHYS 1115	1
DAN 2313		ENG 1320	3
MU 2313		POSI 2320	3
TH 2313		CHEM 1335	3
ENG 1310	3	CHEM 1141	1
POSI 2310	3		

COMM 1310	3		
US 1100	1		
		16	17

<b>Sophomore</b>					
<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	<b>Summer</b>	<b>Hours</b>
ECO 2301	3	TECH 3370	3	TECH 2190	1
TECH 1311	3	TECH 2310	3		
ENGR 2300	3	TECH 2344	3		
TECH 2370	3	TECH 2351	3		
PHYS 1325	3	TECH 3373	3		
PHYS 1125	1				
		16	15		1

**Junior**

<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
TECH 4374	3	TECH 3357	3
TECH 4372	3	TECH 3345	3
TECH 3364	3	TECH 4392	3
English Literature <sup>1</sup>	3	TECH 4373	3
PHIL 1320	3	HIST 1310	3
PFW	1		
		16	15

**Senior**

<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
MGT 3303	3	MGT 4330	3
TECH 4395	3	TECH 4396	3
TECH 4399	3	TECH 4380	3
HIST 1320	3	TECH 4398	3
		12	12

Total Hours: 120

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 1315; Life & Physical Sciences- PHYS 1315; and Social & Behavioral Sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

## Bachelor of Science (B.S.) Major in Technology Management (Manufacturing Technology Concentration)

**Minimum required: 120 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same modern language are taken in high school, then no additional language hours will be required for the degree.

In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

**Freshman**

First Semester	Hours	Second Semester	Hours
MATH 1315	3	MATH 2328	3
TECH 1363	3	CHEM 1335	3
ENG 1310	3	CHEM 1141	1
POSI 2310	3	ENG 1320	3
COMM 1310	3	POSI 2320	3
US 1100	1	TECH 1393	3
16		16	

**Sophomore**

First Semester	Hours	Second Semester	Hours	Summer	Hours
Select one of the following:	3	PHYS 1325	3	TECH 2190	1
ART 2313		PHYS 1125	1		
DAN 2313		TECH 2310	3		
MU 2313		TECH 2344	3		
TH 2313		TECH 2351	3		
TECH 1311	3	TECH 2370	3		
ENGR 2300	3				
PHYS 1315	3				
PHYS 1115	1				
13		16		1	

**Junior**

First Semester	Hours	Second Semester	Hours
English Literature <sup>1</sup>	3	TECH 3357	3
TECH 3364	3	TECH 4362	3
TECH 4374	3	TECH 4373	3
PHIL 1320	3	TECH 3345	3
ECO 2301	3	HIST 1310	3
PFW	1		
16		15	

**Senior**

First Semester	Hours	Second Semester	Hours
MGT 3303	3	MGT 4330	3
TECH 4395	3	TECH 4396	3
TECH 4330	3	TECH 4392	3
TECH 4380	3	TECH 4398	3
HIST 1320	3		
15		12	

Total Hours: 120

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 1315; Life & Physical Sciences- PHYS 1315; and Social & Behavioral Sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

## Bachelor of Science (B.S.) Major in Technology Management (Teacher Certification in Technology Education, Grades 6-12)

### Minimum required: 122 semester hours General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same modern language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
3. All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

**Freshman**

First Semester	Hours	Second Semester	Hours
MATH 1315	3	MATH 2328	3
Select one of the following:	3	CHEM 1335	3
ART 2313		CHEM 1141	1
DAN 2313		ENG 1320	3
MU 2313		POSI 2320	3
TH 2313		PHIL 1320	3
ENG 1310	3		
POSI 2310	3		
COMM 1310	3		
US 1100	1		
16		16	

**Sophomore**

First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 1315	3	PHYS 1325	3	CSM 2313	3
PHYS 1115	1	PHYS 1125	1	HIST 1310	3
TECH 1311	3	TECH 2310	3		
ENGR 2300 or CSM 2342	3	TECH 2344	3		
Social and Behavioral Science <sup>1</sup>		TECH 2351	3		
CIS 1323	3	TECH 2370	3		
16		16		6	

Junior			
First Semester	Hours	Second Semester	Hours
CSM 2360	3	TECH 4362	3
TECH 4373 or 4374	3	TECH 3322	3
TECH 4380	3	HIST 1320	3
TECH 1363	3	MC 4312	3
CI 3325	3	CI 4332	3
PFW	1		
16		15	

Senior			
First Semester	Hours	Second Semester	Hours
CI 4343	3	EDST 4681	6
CI 4370	3		
RDG 3323	3		
TECH 4395	3		
English Literature <sup>1</sup>	3		
15		6	

Total Hours: 122

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 1315; Life & Physical Sciences- PHYS 1315; and Social & Behavioral Sciences- ECO 2301. See the Core Curriculum (p. 50) section of this catalog for the English literature requirements.

## Bachelor of Science in Technology (B.S.T.) Major in Engineering Technology (Civil Engineering Technology Specialization)

**Minimum required: 120 semester hours**  
**General Requirements**

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman			
First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
MATH 2471	4	MATH 2472	4
US 1100	1	CSM 2313	3
ENG 1310	3	PHYS 1430	4

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
HIST 1310	3	TECH 2351	3	TECH 2190	1
CSM 2342	3	ENG 1320	3		
ECO 2301	3	HIST 1320	3		
PHYS 2425	4	CSM 2160	1		
COMM 1310	3	TECH 2344	3		
		PFW elective	1		
16			14		1

Junior					
First Semester	Hours	Second Semester	Hours		
CS 1428	4	CIM 3420	4		
POSI 2320	3	Select one of the following:	3		
CSM 3360	3	ART 2313			
PHIL 1320	3	DAN 231:			
CSM 3361	3	MU 2313			
		TH 2313			
		MGT 3303	3		
		CSM 4361	3		
		English Literature	3		
16			16		

Senior					
First Semester	Hours	Second Semester	Hours		
CSM 3363	3	MGT 4330	3		
IE 3320	3	TECH 3345	3		
CSM 3366	3	CSM 4360	3		
CSM 4364	3	TECH 4380	3		
TECH 3364	3				
15			12		

Total Hours: 120

## Bachelor of Science in Technology (B.S.T.) Major in Engineering Technology (Electrical Engineering Technology Specialization)

**Minimum required: 122 semester hours**  
**General Requirements**

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the



absence of such high school language, two semesters of the same modern language must be taken at the college level.

## Freshman

First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
MATH 2471	4	ENGR 2300	3
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
15		17	

## Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
CS 1428	4	EE 2420	4	TECH 2190	1
TECH 1311	3	TECH 3364	3		
PHYS 1430	4	PHYS 2425	4		
COMM 131C	3	POSI 2320	3		
HIST 1320	3	TECH 2344	3		
17		17		1	

## Junior

First Semester	Hours	Second Semester	Hours
TECH 2370	3	TECH 3373	3
EE 3420	4	Select one of the following:	3
IE 3320	3	ART 2313	
TECH 2351	3	DAN 2313	
ECO 2301	3	MU 2313	
		TH 2313	
		English Literature <sup>1</sup>	3
		PHIL 1320	3
		TECH 3370	3
16		15	

## Senior

First Semester	Hours	Second Semester	Hours
TECH 4380	3	MGT 4330	3
TECH 3345	3	TECH 4392	3
MGT 3303	3	TECH 4373	3
TECH 4372	3	TECH 4398	3
12		12	

Total Hours: 122

<sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 2417; Life & Physical Sciences-CHEM 1341 and PHYS 1315; Language, Philosophy & Culture- PHIL 1320; and Social & Behavioral Sciences- ECO 2301. See the Academic Services section of this catalog for the English literature requirements.

## Bachelor of Science in Technology (B.S.T.) Major in Engineering Technology (Environmental Engineering Technology Specialization)

**Minimum required: 121 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

## Freshman

First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
MATH 2471	4	ENGR 2300	3
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
15		17	

## Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
TECH 1311	3	PHYS 2425	4	TECH 2190	1
PHYS 1430	4	ECO 2301	3		
HIST 1320	3	COMM 1310	3		
CS 1428	4	POSI 2320	3		
		TECH 2344	3		
14		16		1	

## Junior

First Semester	Hours	Second Semester	Hours
IE 3320	3	TECH 4380	3
TECH 2351	3	GEO 2410	4
Select one of the following:	3	MGT 3303	3
ART 2313		TECH 3364	3
DAN 2313			
MU 2313			
TH 2313			
English Literature <sup>1</sup>	3		
PHIL 1320	3		
15		13	

Senior			
First Semester	Hours	Second Semester	Hours
MFGE 2332	3	ENGR 3315	3
TECH 4330	3	TECH 4392	3
TECH 3345	3	GEO 4313	3
CSM 4368	3	MGT 4330	3
GEO 4350	3	TECH 4398	3
15		15	

Total Hours: 121

- <sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 2417; Life & Physical Sciences-CHEM 1341 and CHEM 1342; and Social & Behavioral Sciences- ECO 2301. See the Academic Services section of this catalog for the English literature requirements.

## Bachelor of Science in Technology (B.S.T.) Major in Engineering Technology (Manufacturing Engineering Technology Specialization)

Minimum required: 123 semester hours

### General Requirements

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Freshman			
First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
MATH 2471	4	ENGR 2300	3
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
TECH 1363	3	TECH 1393	3
15		17	

Sophomore					
First Semester	Hours	Second Semester	Hours	Summer	Hours
TECH 1311	3	PHYS 2425	4	TECH 2190	1
PHYS 1430	4	TECH 2310	3		
CS 1428	4	TECH 2351	3		
Select one of the following:	3	COMM 131C	3		

ART 2313	TECH 2344	3
DAN 231:		
MU 2313		
TH 2313		

14 16 1

Junior

First Semester	Hours	Second Semester	Hours
Select 3 hours from the following Mfg. ET Elective list:	3	TECH 4362	3
ENGR 33	3	TECH 3364	3
TECH 4392	3	PHIL 1320	3
TECH 33	3	POSI 2320	3
TECH 4374	3	HIST 1320	3
IE 3320	3		
ECO 2301	3		
HIST 1310	3		
POSI 2310	3		
15		15	

Senior

First Semester	Hours	Second Semester	Hours
TECH 4395	3	TECH 4380	3
English Literature <sup>1</sup>	3	ENGR 3315	3
TECH 4330	3	MGT 4330	3
TECH 3345	3	TECH 4396	3
MGT 3303	3	TECH 4398	3
15		15	

Total Hours: 123

- <sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 2417; Life & Physical Sciences-CHEM 1341 and CHEM 1342; and Social & Behavioral Sciences- ECO 2301. See the Academic Services section of this catalog for the English literature requirements.

## Bachelor of Science in Technology (B.S.T.) Major in Engineering Technology (Mechanical Engineering Technology Specialization)

Minimum required: 123 semester hours

### General Requirements

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

2. If two years of the same language are taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

**Freshman**

First Semester	Hours	Second Semester	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341	3	CHEM 1342	3
MATH 2471	4	ENGR 2300	3
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
TECH 1363	3	TECH 1393	3
	15		17

**Sophomore**

First Semester	Hours	Second Semester	Hours	Summer	Hours
TECH 1311	3	PHYS 2425	4	TECH 2190	1
PHYS 1430	4	TECH 2310	3		
CS 1428	4	TECH 2351	3		
Select one of the following:	3	COMM 131C	3		
ART 2313		TECH 2344	3		
DAN 2313					
MU 2313					
TH 2313					
	14		16		1

**Junior**

First Semester	Hours	Second Semester	Hours
TECH 3373	3	TECH 3344	3
IE 3320	3	TECH 3364	3
ECO 2301	3	PHIL 1320	3
HIST 1310	3	POSI 2320	3
POSI 2310	3	HIST 1320	3
	15		15

**Senior**

First Semester	Hours	Second Semester	Hours
TECH 4395	3	TECH 4380	3
TECH 3345	3	MFGE 4365	3
TECH 4365	3	TECH 4396	3
MGT 3303	3	MGT 4330	3
English Literature <sup>1</sup>	3	TECH 4398	3
	15		15

Total Hours: 123

- <sup>1</sup> Departmental requirements that also satisfy the general education core curriculum requirements for the following components: Mathematics- MATH 2417; Life & Physical Sciences-CHEM 1341 and CHEM 1342; and Social & Behavioral Sciences- ECO 2301. See the Academic Services section of this catalog for the English literature requirements.

## Driver and Traffic Safety Education Certification

Students seeking State of Texas Certification in Driver's Education must complete nine semester hours of:

TECH 4383	Driver and Traffic Safety Education I	3
TECH 4385	Driver and Traffic Safety Education II	3
TECH 4393	Driver and Traffic Safety Education III	3
Total Hours		9

For more information on this program contact the Director of the Traffic Safety Center.

## Minor in Technology

A minor in Technology requires 18 hours of Technology courses, of which 9 hours must be advanced. Courses will be determined by conference with a departmental faculty advisor or the Chair of the Department.

## Department of Mathematics

Math/Computer Science Building Room 470

T: 512.245.2551 F: 512.245.3425

[www.math.txstate.edu/](http://www.math.txstate.edu/) (<http://www.txstate.edu/math/welcome.html>)

The study of mathematics is more than four thousand years old and comprises an enormous body of knowledge. Mathematics remains a very active area of research continually giving rise to new theories and questions. The knowledge accumulated and the questions being considered concern both mathematics itself and its many applications.

Mathematics is a fundamental skill required at some minimal level of all educated people, and required in depth in many professions. The teaching objective of our Department includes the development of reasoning and computations skills, and the preparation of students for careers requiring a significant mathematical background.

## Centers for Excellence

The department houses two Centers for Excellence. Mathworks, a center for innovation in mathematics and math education, designs and hosts programs for students from kindergarten to high school, conducts research on math curriculum, and provides training for teacher education students as well as current teachers. Mathworks received the 2001 Star Award for Closing the Gaps from the Texas Higher Education Coordinating Board and the 2007 Siemens Founders Award.

The mission of the Center for Mathematics Readiness is to provide students with a fresh perspective, immersing them into the world of Mathematics through infrastructure planning, content and curriculum, technical support and evaluation. This will ensure that all students are afforded the opportunity to succeed, not just in college, but in life as well.

## Majors

The department offers the Bachelor of Science with a major in Mathematics with or without teacher certification, the Bachelor of Science with a major in Applied Mathematics, and the Bachelor of Arts with a major in Mathematics.

## Bachelor of Arts (B.A.)

- Major in Mathematics (p. 535)

## Bachelor of Science (B.S.)

- Major in Applied Mathematics (p. 536)
- Major in Mathematics (p. 537)
- Major in Mathematics (Teacher Certification in Mathematics, Grades 7-12) (p. 537)

## Minors

- Applied Mathematics (p. 538)
- Mathematics (p. 539)
- Second Teaching Field in Mathematics (Grades 7-12) (p. 539)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Mathematics (MATH)

### MATH 1300. Elementary Algebra.

A course to remediate and review basic academic skills in mathematics, including number concepts, computation, elementary algebra, geometry and mathematical reasoning. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial|Lab Required

**Grade Mode:** Developmental

### MATH 1311. Intermediate Algebra.

A preparatory course for college algebra. Topics include linear equations and inequalities, rational expressions, exponents and radicals, quadratics and word problems. This course is designed for students who have graduated from high school with no more than the minimum mathematics requirements or for students who have been away from mathematics for a number of years. Credit earned for this course does not count toward any degree offered by the university. Prerequisite:

MATH 1300 with a grade of CR, ACT Mathematics score of 15 or more, SAT Mathematics score of 400 or more, Accuplacer College Mathematics score of 40 or more, or Compass Algebra score of 35 or more

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial|Lab Required

**Grade Mode:** Developmental

### MATH 1312. College Statistics and Algebra.

A course covering linear and quadratic equations, inequalities, functions and their graphs, logarithms, systems of equations, and applications of mathematics. Special emphasis on statistical concepts including linear and quadratic regression, distributions confidence intervals, & hypothesis testing. This course is not intended to substitute for MATH 1315 as a prerequisite. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1342

### MATH 1315. College Algebra.

A course covering linear and quadratic equations, inequalities, word problems, functions, logarithms, systems of equations and other college algebra topics as time permits. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1314

### MATH 1316. Survey of Contemporary Mathematics.

(MATH 1332) A study of the uses of mathematics in society today. Emphasis is on concepts rather than technical details. May not be used as a prerequisite for any other mathematics course. Prerequisite: College Readiness in Mathematics according to TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1332

### MATH 1317. Plane Trigonometry.

A course covering trigonometric functions, right triangles, radian measure, graphs of trigonometric functions, trigonometric identities, including multiple and half-angle identities, inverse trigonometric functions, trigonometric equations, oblique triangles, and complex numbers. Prerequisite: MATH 1315 with a grade of C or higher, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1316

### MATH 1319. Mathematics for Business and Economics I.

Topics from college algebra and finite mathematics which apply to business and economics including applications of equations and inequalities, simple and compound interest and annuities. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1324

**MATH 1329. Mathematics for Business and Economics II.**

Topics from finite mathematics and elementary differential calculus which apply to business and economics. Prerequisite: MATH 1315 or 1319 with a grade of C or higher, ACT Mathematics score of 27 or more, SAT Mathematics score of 580 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1325

**MATH 2311. Principles of Mathematics I.**

Logical deductive reasoning, number theory, a rational development of the real numbers with the associated number structures and algorithms for the fundamental operations, including historical, philosophical and cultural significance. Prerequisite: MATH 1315 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1350

**MATH 2312. Informal Geometry.**

Geometric measuring. Euclidean Geometry, and topics associated with informal geometry, including historical, philosophical, and cultural significance. Prerequisite: MATH 2311 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1351

**MATH 2321. Calculus for Life Sciences I.**

This course is designed to serve the needs of students in the life sciences. Topics will include: graphs, derivatives, exponents and logarithms, scientific notation, sequences, summation, and applications. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 2313

**MATH 2328. Elementary Statistics.**

This course is an algebra-based introduction to descriptive statistics, random sampling, design of experiments, probability and the Central Limit Theorem. Inferential statistics topics include the foundational concepts for confidence intervals and hypothesis testing for simple experiments. Prerequisites: MATH 1315 with a grade of "C" or higher, MATH 2321 with a grade of "D" or higher, MATH 2417 with a grade of "D" or higher, MATH 2471 with a grade of "D" or higher, ACT Mathematics score of 24 or more or SAT Mathematics score of 520 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1342

**MATH 2331. Calculus for Life Science II.**

Topics in this course will include: trigonometric functions, probability, integral calculus, differential equations, and applications. Prerequisites: MATH 2321 with a grade of "C" or higher, MATH 2471 with a grade of "D" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 2358. Discrete Mathematics I.**

This course is a study of discrete mathematical structures that are commonly encountered in computing hardware and software. Prerequisites: MATH 1315 with a grade of "C" or higher, MATH 2417 with a grade of "D" or higher, or MATH 2471 with a grade of "D" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 2305

**MATH 2417. Pre-Calculus Mathematics.**

A survey of functions, trigonometry and analytic geometry to prepare students for calculus. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2412

**MATH 2471. Calculus I.**

This is the first course in differential and integral calculus which stresses limits as well as the applications of calculus to the problems of science. Prerequisites: MATH 2417 with a grade of C or higher, ACT Mathematics score of 27 or more, SAT Mathematics score of 580 or more, Accuplacer College Mathematics score of 103 or more, Compass Trigonometry score of 46 or more

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2413

**MATH 2472. Calculus II.**

A continuation of differential and integral calculus including methods of integration, sequences and series, and introduction to partial derivatives. Prerequisite: MATH 2471 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2414

**MATH 3305. Introduction to Probability and Statistics.**

Basic probability models, generating functions and conditional probability, also discrete and continuous, univariate and bivariate distributions of random variables. Concepts of estimation, tests of hypothesis and statistical inference. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3315. Modern Geometry.**

Modern geometry with an emphasis on the triangle, circle, plane and Euclidian geometry, an historical aspects will be integrated into the course. May not be applied toward a minor in mathematics. Prerequisites: MATH 2321 or MATH 2471 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 3323. Differential Equations.**

A course covering solutions to the more common types of ordinary differential equations, especially those of first and second order, with emphasis on geometrical and physical interpretations. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3325. Number Systems.**

Algebraic construction of the natural numbers. Covers the basic vocabulary and proof techniques of abstract algebra, and the structural properties of the natural numbers, integers, rational, real and complex number systems. Prerequisite or Co-requisite: MATH 2471

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3330. Introduction to Advanced Mathematics.**

An introduction to the theory of sets, relations, functions, finite and infinite sets, and other selected topics. Algebraic structure and topological properties of Euclidean Space, and an introduction to metric spaces. Prerequisite: MATH2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3348. Deterministic Operations Research.**

This course provides a broad overview of deterministic operations research techniques. Linear programming will be covered including the simplex method, duality and sensitivity analysis. Further selected topics are from integer programming, dynamic programming, scheduling models, game theory, and associated topics. Prerequisite: MATH 2472 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3373. Calculus III.**

A course covering sequences and series, vectors, functions of several variables, partial derivatives, multiple integrals, line and surface integrals, and applications. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3375. Engineering Mechanics.**

A course covering statics, using a vector approach to mechanics. The course is designed to satisfy the requirements of engineering Colleges. This course cannot be used to satisfy the requirements of Engineering degrees. Prerequisite: PHYS 1430. Prerequisite or Co-requisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3377. Linear Algebra.**

An introductory course in linear algebra covering vector spaces, linear transformation, matrices, systems of linear equations, and inner product spaces. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3380. Analysis I.**

A course covering the introduction to the theory of real functions. Topics include limits, continuity and derivatives and associated topics. Prerequisite: MATH 3330 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3383. Numerical Analysis I.**

This course focuses on basic numerical methods in mathematics to the solution of functional problems in fields such as engineering and applied sciences. This course covers instructions in computer arithmetic, solutions of equations, interpolation, numerical differentiation/integration, and applications to scientific and industrial applications. Prerequisite: MATH 2472 with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3398. Discrete Mathematics II.**

A continuation of discrete Mathematics I. Prerequisite: MATH 2358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4302. Principles of Mathematics II.**

Algebraic reasoning and probability with selected topics from quantitative reasoning, measurement, statistics, and geometry are integrated with middle school pedagogical practices such as inquiry learning and use of technology. Appropriate correlated lessons, writing components, and culturally responsive teaching are incorporated.

Prerequisite: MATH 2312 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4303. Capstone Mathematics for Middle School Teachers.**

A rigorous, integrated, analytical perspective of mathematical topics; quantitative reasoning, geometry and measurement, probability and statistics, number theory and algebraic reasoning. May not be applied towards a mathematics minor. Must be taken before student teaching. Prerequisites: Math 2331 or 2472 and Math 3315 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4304. Capstone Mathematics for Secondary Teachers (of Mathematics).**

Basic concepts underlying algebra, geometry, trigonometry, and calculus taught from an advanced standpoint, including historical, philosophical, and cultural significance. May not be applied toward a minor in mathematics. Must be taken before student teaching. Prerequisite: MATH 3315 and MATH 2331 or MATH 2472 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4305. Probability and Statistics.**

A course covering sample spaces, probability of events, binomial and multinomial distributions, random variables, normal approximations, statistical inference, and applications. Prerequisite: MATH 3305 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4306. Fourier Series and Boundary Value Problems.**

Advanced solution methods for differential equations; partial differential equations; series approximations, Fourier series; boundary value problems typical of scientific applications. Prerequisite: MATH 3323 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4307. Modern Algebra.**

A course covering elementary set theory, structures, functions, and concepts of modern algebra. Prerequisites: MATH 3330 with a grade of "C" or higher and MATH 3325 or 3377 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4311. Introduction to the History of Mathematics.**

A survey of the development of major mathematical topics, including geometry, algebra, calculus, and advanced mathematics. Philosophical and cultural aspects will be integrated with the structure, theorems, and applications of mathematics. May not be applied toward a minor in mathematics. Prerequisite: MATH 3315 with a grade of "C" or higher and MATH 2331 or MATH 2472 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4315. Analysis II.**

A continuation of MATH 3380. Topics include integration, series and sequences of functions and associated topics. Prerequisite: MATH 3380 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4330. General Topology.**

Topics include introductory treatment of convergence, continuity, compactness, connectedness and fixed points in topological spaces with special emphasis on metric spaces. Prerequisite: MATH 3330 or MATH 3380 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4336. Studies in Applied Mathematics.**

Selected topics including Laplace transforms, complex variables, advanced calculus for applications, calculus of variations, integral equations, intermediate differential equations, vector analysis, etc. May be repeated once for credit with a different topic. Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MATH 4350. Introduction to Combinatorics.**

This course introduces fundamental concepts and results in combinatorics such as counting techniques, binomial coefficients, and recurrence relations; and applications in different fields such as complexity of algorithms and graph theory. Mathematical proofs are an essential part of this course. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4382. The Literature and Modern History of Mathematics and Its Applications.**

This course will focus on mathematical articles in recent journals. The articles will be re-written so that the proofs and comments are more easily understood by the casual reader. This embellishment of journal articles will take place in class with the class participating, in groups for outside work and as individual assignments. May not be applied toward a minor in mathematics. Prerequisites: A grade of "C" or higher in two of these three: MATH 3380, MATH 4307, or MATH 4330. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4383. Numerical Analysis II.**

This course focuses on a broad range of mathematical and computational methods in modeling, analysis, and simulation of scientific and engineering problems. This course covers instructions in numerical analysis, approximation, optimization, differential equations, scientific computation, and applications to scientific and industrial topics.

Prerequisites: MATH 3383 and MATH 3323 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Mathematics

**Minimum required: 120 semester hours**

				Freshman	
		First Semester	Hours	Second Semester	
				Hours	Hours
US 1100		1	MATH 2472		4
ENG 1310		3	ENG 1320		3
POSI 2310		3	HIST 1310		3
COMM 1310		3	Life and Physical Sciences Component <sup>2</sup>		3
MATH 2471 <sup>1</sup>		4	PHIL 1305 or 1320		3
Social and Behavioral Sciences Component <sup>2</sup>		3			
		17		16	
				Sophomore	
		First Semester	Hours	Second Semester	
				Hours	Hours
MATH 3373		3	Select one of the following:		3
Minor <sup>3</sup>		3	ART 2313		
Modern Language 1410		4	DAN 2313		
Life and Physical Sciences Component <sup>2</sup>		4	MU 2313		
				TH 2313	
				MATH Advanced Elective	3
				CS 1428	4
				Modern Language 1420	4
				English Literature <sup>2</sup>	3
		14		17	
				Junior	
		First Semester	Hours	Second Semester	
				Hours	Hours
MATH 3377		3	MATH 3380		3
MATH 3330		3	MATH Advanced Elective		3
Minor <sup>3,4</sup>		3	Minor <sup>3,4</sup>		3

Modern Language 2310	3	Modern Language 2320	3
HIST 1320	3	POSI 2320	3
15		15	
<b>Senior</b>			
<b>First Semester Hours</b>		<b>Second Semester Hours</b>	
MATH 4330	3	MATH 4307	3
Minor <sup>3,4</sup>	6	MATH 4315	3
Second English Literature <sup>2</sup>	3	Minor <sup>3,4</sup>	3
Elective	2	MATH Advanced Elective	3
14		12	

Total Hours: 120

- <sup>1</sup> Even though MATH 2471 is the first required mathematics course, some students will need to take courses numbered below 2471. Credit examinations in MATH 1315, MATH 2417 and MATH 2471 are available.
- <sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements.
- <sup>3</sup> See the list of minors under the Degrees and Programs section of this catalog. Minor and electives should be chosen in consultation with the academic advisor.
- <sup>4</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

### MATH Advanced Electives

MATH 3305	Introduction to Probability and Statistics	3
MATH 3323	Differential Equations	3
MATH 3325	Number Systems	3
MATH 3348	Deterministic Operations Research	3
MATH 3375	Engineering Mechanics	3
MATH 3383	Numerical Analysis I	3
MATH 3398	Discrete Mathematics II	3
MATH 4305	Probability and Statistics	3
MATH 4306	Fourier Series and Boundary Value Problems	3
MATH 4336	Studies in Applied Mathematics	3
MATH 4350	Introduction to Combinatorics	3
MATH 4382	The Literature and Modern History of Mathematics and Its Applications	3
MATH 4383	Numerical Analysis II	3

## Bachelor of Science (B.S.) Major in Applied Mathematics

Minimum required: 120 semester hours

<b>Freshman</b>			
<b>First Semester Hours</b>		<b>Second Semester Hours</b>	
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
COMM 1310	3	Life and Physical Sciences Component <sup>2</sup>	3
MATH 2471 <sup>1</sup>	4	PHIL 1305 or 1320	3

Social and Behavioral Sciences Component <sup>2</sup>	3		
17		16	
<b>Sophomore</b>			
<b>First Semester Hours</b>		<b>Second Semester Hours</b>	
MATH 3373	3	MATH 3305	3
Minor <sup>3</sup>	3	Minor <sup>3</sup>	3
Life and Physical Sciences Component <sup>2</sup>	4	CS 1428	4
MATH 2358	3	English Literature <sup>2</sup>	3
		MATH 3323	3

13		16	
<b>Junior</b>			
<b>First Semester Hours</b>		<b>Second Semester Hours</b>	
Select one of the following:	3	MATH 3377	3
ART 2313		MATH Advanced Elective	3
DAN 2313		Minor <sup>3,4</sup>	3
MU 2313		POSI 2320	3
TH 2313		Electives <sup>1,3,4,5</sup>	3
MATH 3330	3		
CS 2308	3		
Minor <sup>3,4</sup>	3		
HIST 1320	3		
15		15	

<b>Senior</b>			
<b>First Semester Hours</b>		<b>Second Semester Hours</b>	
MATH 3380	3	MATH Advanced Electives	6
Minor <sup>3,4</sup>	3	Minor <sup>3,4</sup>	3
Electives <sup>1,3,4,5</sup>	6	Electives <sup>1,3,4,5</sup>	4
ENG 3303	3		
15		13	

Total Hours: 120

- <sup>1</sup> Even though MATH 2471 is the first required mathematics course, some students will need to take courses numbered below 2471. Credit examinations in MATH 1315, MATH 2417, and MATH 2471 are available.
- <sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements. PHYS 1430 is highly recommended as one of the life and physical science courses since it is a prerequisite for MATH 3375 in the advanced MATH electives.
- <sup>3</sup> See the list of minors under the Degrees and Programs section of this catalog. Minor and electives should be chosen in consultation with the academic advisor.
- <sup>4</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- <sup>5</sup> If two years of the same foreign language were taken in high school, then no additional language hours required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

### MATH Advanced Electives

MATH 3348	Deterministic Operations Research	3
MATH 3375	Engineering Mechanics	3

MATH 3383	Numerical Analysis I	3
MATH 3398	Discrete Mathematics II	3
MATH 4305	Probability and Statistics	3
MATH 4306	Fourier Series and Boundary Value Problems	3
MATH 4307	Modern Algebra	3
MATH 4315	Analysis II	3
MATH 4336	Studies in Applied Mathematics	3
MATH 4350	Introduction to Combinatorics	3
MATH 4383	Numerical Analysis II	3

English Literature <sup>6</sup>	3 Elective	3
		13
		15

Total Hours: 120

- Even though MATH 2471 is the first required mathematics course, some students will need to take courses numbered below 2471. Credit examinations in MATH 1315, MATH 2417 and MATH 2471 are available
- See the Academic Services section of this catalog for general education core curriculum requirements.
- See the list of minors under the Degrees and Programs section of this catalog. Minor and electives should be chosen in consultation with the academic advisor.
- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- If two years of the same foreign language were taken in high school, then no additional foreign language hours will be required for the degree. In the absence of such high school foreign language, two semesters of the same modern language must be taken at the college level.
- May be an additional sophomore level English Literature or ENG 3303, Technical Writing

## Bachelor of Science (B.S.) Major in Mathematics

Minimum required: 120 semester hours

Freshman			
First Semester		Hours	
Second Semester		Hours	
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
COMM 1310	3	Life and Physical Sciences Component <sup>2</sup>	3
MATH 2471 <sup>1</sup>	4	PHIL 1305 or 1320	3
Social and Behavioral Sciences Component <sup>2</sup>	3		
		17	16

Sophomore			
First Semester		Hours	
Second Semester		Hours	
MATH 3373	3	MATH 3330	3
Minor <sup>3</sup>	3	Minor <sup>3</sup>	3
Life and Physical Sciences Component <sup>2</sup>	4	CS 1428	4
Electives <sup>1,3,4,5</sup>	3	English Literature <sup>2</sup>	3
		MATH 3377	3
		13	16

Junior			
First Semester		Hours	
Second Semester		Hours	
Select one of the following:	3	MATH Advanced Electives	6
ART 2313		Minor <sup>3,4</sup>	3
DAN 2313		POSI 2320	3
MU 2313		Electives <sup>1,3,4,5</sup>	3
TH 2313			
MATH 3380	3		
Minor <sup>3,4</sup>	3		
HIST 1320	3		
Electives <sup>1,3,4,5</sup>	3		
		15	15

Senior			
First Semester		Hours	
Second Semester		Hours	
MATH 4330	3	MATH 4307	3
MATH Advanced Elective	3	MATH 4315	3
Electives <sup>1,3,4,5</sup>	4	Minor <sup>3,4</sup>	6

### MATH Advanced Electives

MATH 3305	Introduction to Probability and Statistics	3
MATH 3323	Differential Equations	3
MATH 3325	Number Systems	3
MATH 3348	Deterministic Operations Research	3
MATH 3375	Engineering Mechanics	3
MATH 3383	Numerical Analysis I	3
MATH 3398	Discrete Mathematics II	3
MATH 4305	Probability and Statistics	3
MATH 4306	Fourier Series and Boundary Value Problems	3
MATH 4336	Studies in Applied Mathematics	3
MATH 4350	Introduction to Combinatorics	3
MATH 4382	The Literature and Modern History of Mathematics and Its Applications	3
MATH 4383	Numerical Analysis II	3

## Bachelor of Science (B.S.) Major in Mathematics (Teacher Certification in Mathematics, Grades 7-12)

Minimum required: 120 semester hours  
General Requirement

- All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

Freshman			
First Semester	Hours	Second Semester	Hours
US 1100	1	MATH 2472	4
ENG 1310	3	CS 1428	4

POSI 2310	3	ENG 1320	3
MATH 2471	4	HIST 1310	3
Social and Behavioral Sciences Component <sup>2</sup>	3	PHIL 1305 or 1320	3
	14		17

				Sophomore	
First Semester	Hours	Second Semester	Hours	Summer	Hours
MATH 3330	3	MATH 3305	3	Summer I:	
MATH 3315	3	MATH 3377	3	HIST 1320	3
Life and Physical Sciences Component <sup>2</sup>	3-4	COMM 1310	3	English Literature <sup>2</sup>	3
Electives <sup>1,3,4</sup>	4-5	Electives <sup>3,4,5</sup>	3	Summer II:	
		Life and Physical Sciences Component <sup>2</sup>	4	POSI 2320	3
	13		16		9

				Junior	
First Semester	Hours	Second Semester	Hours		
MATH 3380	3	MATH 4307	3		
MATH 4311	3	MATH 4304	3		
CI 4332	3	CI 3325	3		
MATH Advanced Elective	3	MATH Advanced Elective	3		
Select one of the following:	3	English Literature <sup>6</sup>	3		
ART 2313					
DAN 2313					
MU 2313					
TH 2313					
	15		15		

				Senior	
First Semester	Hours	Second Semester	Hours		
CI 4370	3	EDST 4681	6		
CI 4343	3				
RDG 3323	3				
Electives <sup>1,3,4</sup>	6				
	15		6		

Total Hours: 120

<sup>1</sup> Even though MATH 2471 is the first required mathematics course, some students will need to take courses numbered below 2471. Credit examinations in MATH 1315, MATH 2417 and MATH 2471 are available. Electives should be chosen in consultation with the academic advisor.

<sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

<sup>3</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<sup>4</sup> If two years of the same modern language were taken in high school, then no additional language hours will be required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

<sup>5</sup> A minor in Secondary Education and admission into the Teacher Preparation Program is required. Visit the Office of Educator Preparation (OEP) website for more information, <http://www.education.txstate.edu/oep/>

<sup>6</sup> May be sophomore level English Literature or ENG 3303 Technical Writing.

## MATH Advanced Electives

At least 38 hours are required in mathematics and must include:

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
MATH 3305	Introduction to Probability and Statistics	3
MATH 3315	Modern Geometry	3
MATH 3330	Introduction to Advanced Mathematics	3
MATH 3377	Linear Algebra	3
MATH 3380	Analysis I	3
MATH 4304	Capstone Mathematics for Secondary Teachers (of Mathematics)	3
MATH 4307	Modern Algebra	3
MATH 4311	Introduction to the History of Mathematics	3
	Select six hours from the following:	6
MATH 3323	Differential Equations	
MATH 3325	Number Systems	
MATH 3373	Calculus III	
MATH 4305	Probability and Statistics	
MATH 4315	Analysis II	
MATH 4330	General Topology	

Total Hours 38

## Minor in Applied Mathematics

A minor in Applied Mathematics requires at least 20 hours, including:

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
	Select four of the following:	12
MATH 3305	Introduction to Probability and Statistics <sup>2</sup>	
MATH 3323	Differential Equations	
MATH 3348	Deterministic Operations Research	
MATH 3373	Calculus III	
MATH 3375	Engineering Mechanics	
MATH 3377	Linear Algebra	
MATH 3383	Numerical Analysis I	
MATH 3398	Discrete Mathematics II	
MATH 4306	Fourier Series and Boundary Value Problems	
MATH 4350	Introduction to Combinatorics	



MATH 4383	Numerical Analysis II	
PHYS 3320	Introduction to Mathematical Physics <sup>1</sup>	
CS 3378	Theory of Automata <sup>1</sup>	
IE 3320	Engineering Statistics <sup>1,2</sup>	
Total Hours		20

<sup>1</sup> Students can take only one of: PHYS 3320, CS 3378, or IE 3320

<sup>2</sup> Students may not receive credit for both MATH 3305 and IE 3320

## Minor in Mathematics

A minor in Mathematics requires at least 20 hours, including:

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
Select four of the following:		12
MATH 3305	Introduction to Probability and Statistics	
MATH 3323	Differential Equations	
MATH 3325	Number Systems	
MATH 3330	Introduction to Advanced Mathematics	
MATH 3348	Deterministic Operations Research	
MATH 3373	Calculus III	
MATH 3377	Linear Algebra	
MATH 3380	Analysis I	
MATH 3383	Numerical Analysis I	
MATH 3398	Discrete Mathematics II	
MATH 4305	Probability and Statistics	
MATH 4306	Fourier Series and Boundary Value Problems	
MATH 4307	Modern Algebra	
MATH 4350	Introduction to Combinatorics	
MATH 4383	Numerical Analysis II	
Total Hours		20

## Second Teaching Field in Mathematics (Grades 7-12)

For students who are seeking a teacher certification within their major and would like a second teaching field in Mathematics, the requirements are:

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
MATH 3305	Introduction to Probability and Statistics	3
MATH 3315	Modern Geometry	3
MATH 3330	Introduction to Advanced Mathematics	3
MATH 3377	Linear Algebra	3
MATH 3380	Analysis I	3
MATH 4304	Capstone Mathematics for Secondary Teachers (of Mathematics)	3
MATH 4307	Modern Algebra	3
Total Hours		29

All students pursuing teacher certification must apply and be accepted to the Office of Educator Preparation (p. 204).

## Department of Physics

Roy F. Mitte Building Room 3240

T: 512.245.2131 F: 512.245.8233

[www.txstate.edu/physics/](http://www.txstate.edu/physics/) (<http://www.txstate.edu/physics/>)

Physics, the study of matter and energy, is at the root of every field of natural science and underlies all physical phenomena. The problem-solving skills learned in the study of physics are valuable even if one's career is not in a physics-related field.

The B.S. with a major in Physics provides a rigorous background in physics as a preparation for graduate studies or a career in industry. The B.A. with a major in Physics is for students who want a background in physics but plan to pursue fields of interest other than physics as a life's work.

Career opportunities for a physics major exist in a wide variety of settings—from teaching in a classroom to basic research in an industrial or government laboratory, as a self-employed consultant, or as a member of a multidisciplinary research team.

Students who enter Texas State needing mathematics at a level below MATH 2417 are urged to attend a summer session to avoid any delay in starting their physics courses.

For more information contact the College of Science and Engineering Advising Center or the departmental advisor for the Department of Physics. For information on engineering technology, electrical engineering, industrial engineering, and manufacturing engineering see the Ingram School of Engineering and Department of Engineering Technology sections of this catalog.

## Teacher Certification

Students should visit the catalog program page if interested in seeking a certification in Physical Science (Texas Grades 6-12) (p. 544) or Physics/Mathematics (Texas Grades 7-12) (p. 545). Initial or additional certification may also be acquired as a post-baccalaureate or graduate student. Students interested in certification are strongly encouraged to see the Science Advisor early in their undergraduate program or certification process.

## Bachelor of Arts (B.A.)

- Major in Physics (p. 543)

## Bachelor of Science (B.S.)

- Major in Physics (p. 544)
- Major in Physics (Teacher Certification in Physical Science, Grades 6-12) (p. 544)
- Major in Physics (Teacher Certification in Physics/Mathematics, Grades 7-12) (p. 545)

## Minor

- Physics

Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in Physics (PHYS)

### PHYS 1110. Elementary Physics Laboratory.

This course explores and illustrates some of the basic principles covered in PHYS 1310 and PHYS 1320. This lab should be taken as the second of two courses, PHYS 1310 and PHYS 1320

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1105

### PHYS 1115. General Physics I Laboratory.

First of two laboratory courses in General Physics for science-related majors. Course introduces students to the basics of measurement. Topics cover mechanics and heat. Prerequisite or Corequisite:

PHYS 1315

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1101

### PHYS 1125. General Physics II Laboratory.

Second of two laboratory courses in general Physics. Course introduces the students to experimental measurements and demonstration of principles of electricity, magnetism, optics, modern physics, electromagnetic waves

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1102

### PHYS 1140. Introductory Laboratory in Astronomy.

An introduction to the constellations, the uses of telescopes, and other material relating to the study of stars and planets. This course is designed to be taken with PHYS 1340 or PHYS 1350 or those students desiring a laboratory course

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1111

### PHYS 1310. Elementary Physics.

A non-mathematical survey of mechanics, properties of matter, heat and sound. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (PHYS 1110). PHYS 1310 and PHYS 1320 are designed for the liberal arts student. The order in which they are taken is not important. They are not recommended for pre-engineering students or majors and minors in science. The laboratory experience is recommended with the second course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1305

### PHYS 1315. General Physics I.

The first course in a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of mechanics and heat. Designed for students whose program requires technical physics, but who are not pre-engineering students or majors or minors in physics. Prerequisite: MATH 1315 with a grade of "C" or higher. Prerequisite or Co-requisite: PHYS 1115. MATH 1317 is recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** PHYS 1115

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1301

### PHYS 1320. Elementary Physics.

A non-mathematical survey of electricity, magnetism, light, relativity, and atomic and nuclear physics. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (PHYS 1110). PHYS 1310 and PHYS 1320 are designed for the liberal arts student. The order in which they are taken is not important. They are not recommended for pre-engineering students or majors and minors in science. The laboratory experience is recommended with the second course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1307

### PHYS 1325. General Physics II.

Second course in a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of waves, light, electricity and magnetism. Designed for students whose program requires technical physics, but who are not pre-engineering students or majors or minors in physics. Prerequisites: PHYS 1315 and MATH 1315 with a grade of "C" or higher. MATH 1317 and concurrent enrollment in PHYS 1125 are recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** PHYS 1125

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1302

### PHYS 1340. Astronomy: Solar System.

A study of the solar system. Topics included are a study of the sun, the planets and their satellites, the comets, and other components of the solar system. Some aspects of telescopes and ancient astronomy will be included also

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1312

### PHYS 1350. Astronomy: Stars and Galaxies.

A study of the universe beyond the solar system. Topics included are a study of the stars and star clusters, nebulae, galaxies, and an introduction to some aspects of cosmology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1311

**PHYS 1430. Mechanics.**

This course covers the principles of classical mechanics through problem solving and laboratory investigations. PHYS 1430, PHYS 2425, and PHYS 2435 are designed for students majoring and minoring in physics and/or other disciplines within the college of science and engineering. Credit for both PHYS 1315 and PHYS 1115 and PHYS 1430 cannot be given. Pre or Co-requisite: MATH 2471 with a C or higher or concurrent enrollment in MATH 2471

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2425

**PHYS 2425. Electricity and Magnetism.**

This course is a study of the field of electricity and magnetism for physics majors and minors. PHYS 1430, PHYS 2425, and PHYS 2435 are designed for those students majoring or minoring in physics and for pre-engineering students. Credit in both PHYS 1325 and PHYS 1125 and PHYS 2425 cannot be given. Prerequisites: PHYS 1430 and MATH 2472 with grades of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2426

**PHYS 2435. Waves and Heat.**

This course is a study of the fields of wave motion, sound, light, and heat at a beginning level for physics majors and minors. Prerequisites: PHYS 1430 and MATH 2471 with grades of C or higher. Co-requisite: MATH 2472

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2427

**PHYS 3210. Physics Cognition and Pedagogy.**

This course is an introduction to physics-specific pedagogy and the methods and results of physics education research (PER). Students will investigate relevant literature in PER and cognitive science, engage in discussions about physics teaching and learning, and reflect on their own teaching practice in the role of Physics Learning Assistants. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3301. Musical Acoustics.**

A survey of the physics of sound and acoustic measurement. Special emphasis will be placed on sound production, propagation, and perception as applied to music. Prerequisites: PHYS 1410 and PHYS 1420 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3311. Mechanics I.**

This course discusses the fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. Topics included are advanced problem solving strategies for systems with position and velocity dependent forces, simple harmonic oscillators, and non-inertial reference frames. Prerequisite: PHYS 2435 with a C or higher. Co-requisite: PHYS 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3312. Modern Physics.**

This course is an introduction to the foundations of modern physics, including the following topics: relativistic mechanics, kinetic theory of matter, quantization of charge, light and energy, the atom, wave nature of particles, and the Schrodinger equation. Prerequisite: PHYS 2435 with a C or higher. PHYS 2425 with a grade of C or higher, or concurrent enrollment allowed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3315. Thermodynamics.**

This course is a fundamental study of thermodynamics and statistical mechanics. Prerequisites: MATH 3323 and (PHYS 2435 or PHYS 1325 and PHYS 1125 or (PHYS 2425 and ENGR 2300))

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3320. Introduction to Mathematical Physics.**

An introduction to the mathematical methods of theoretical physics with emphasis on the vectorial-functional approach emphasized in current research literature. Applications will be made to certain fundamental problems of mechanics and electromagnetic field theory. Prerequisites: PHYS 2425 and MATH 3373 with grades of C or higher; MATH 3323 with a grade of C or higher, or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3411. Advanced Physics Laboratory.**

Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics. Prerequisites: PHYS 2425 with a grade of C or higher; PHYS 3312 with a grade of C or higher, or concurrent enrollment. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3416. Applied Electronics.**

This Laboratory/lecture course is an introduction to electronic test bench methods for the construction, operation and analysis of important DC/AC circuits utilizing resistors, capacitors, diodes, BJTs, FETs, and OpAmps. The behavior of the circuits will be modeled in SPICE. Elementary semiconductor device physics and microfabrication methods will be discussed. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3417. Optics.**

This course is a one-semester survey of geometrical and physical optics accompanied by laboratory experience. Topics covered include electromagnetic waves and their propagation, geometrical optics, polarization, interference, diffraction, Fourier optics, and holography. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 4121. Undergraduate Research.**

This course represents a student's research project in physics to be carried out under the supervision of a faculty member. The student must contact a faculty member in advance to arrange the topic and specific course objectives. This course may be repeated for credit. Instructor's approval required

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4221. Undergraduate Research.**

This course represents a student's research project in physics to be carried out under the supervision of a faculty member. The student must contact a faculty member in advance to arrange the topic and specific course objectives. This course may be repeated for credit. Instructor's approval required

**2 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4305. Statistical Physics.**

This course will examine the physics that describes the equilibrium thermal properties of systems. Statistical physics explains the microscopic properties of systems that give rise to their measureable macroscopic behavior. This includes thermodynamic properties, transport processes, fluctuations from equilibrium, phase transitions and critical phenomena, and quantum fluids. Prerequisites: PHYS 3312, PHYS 3320, and MATH 3323 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4310. Electromagnetic Field Theory I.**

An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magneto static energy, and magnetic properties of matter. Prerequisites: MATH 3323, MATH 3373 and PHYS 3320 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4311. Condensed Matter Physics.**

Application of physics principles to solid materials. Topics include crystal structure and the reciprocal lattice, including x-ray diffraction, crystal binding and elastic properties, lattice vibrations, energy bands, semiconductors and metals. Prerequisites: PHYS 3312 and PHYS 3320 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4312. Quantum Mechanics I.**

An introductory course in quantum mechanics. Topics include mathematical foundations, fundamental postulates, time development, and one dimensional problems. Prerequisites: MATH 3323, PHYS 3312, and PHYS 3320 with grades of C or higher; and six additional hours of advanced physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4313. Quantum Mechanics II.**

An advanced course in quantum mechanics intended as an elective for students intending to pursue graduate study in physics. Topics include angular momentum, three dimensional problems, matrix mechanics, and perturbation theory. Prerequisite: PHYS 4312 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4314. Mechanics II.**

Fundamentals of Classical Mechanics focusing on the physical description of the behavior of single and multiple particle systems. Topics include central force motion, rigid body rotation, and coupled oscillations. This course is intended as an elective for students intending to pursue graduate study in physics. Prerequisites: PHYS 3311 and MATH 3323 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4315. Electromagnetic Field Theory II.**

An introduction to the electromagnetic field theory of classical physics for time varying fields. Topics included will be electromagnetic induction, time varying electric and magnetic fields, Maxwell's equations, electromagnetic energy, electromagnetic waves and radiation, and a brief introduction to some specialized topics. Prerequisite: PHYS 4310 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4317. Computational Physics.**

Introduction to computational techniques for problem-solving and research beyond the standard techniques of most physics courses. Numerical, symbolic, and simulation methods applied to modern physics using advanced mathematical software and a highlevel programming language. Prerequisites: PHYS 3320 and six additional hours of advanced physics or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 4320. Selected Study in Physics.**

Topics are chosen in theoretical and experimental areas of current interest in physics with specific topic to be discussed agreed upon prior to registration. May be repeated once with different emphasis and professor for additional credit. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4321. Undergraduate Research.**

A research project in physics to be carried out under the supervision of a faculty member by upper division physics majors. Student must contact a faculty member in advance to arrange topic and specific course objective. Course may be repeated only as an elective towards the BS or BA in physics. Prerequisite: Instructor approval

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4340. Materials Physics Laboratory.**

A laboratory based course introducing a broad array of materials synthesis and characterization methods. The specific subjects will be coordinated with topics of current interest in the literature and will be chosen by mutual consent of the student and faculty advisor. Prerequisites: PHYS 3416, PHYS 3411, and PHYS 4311. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**PHYS 4350A. Thin Film Photovoltaic Devices.**

This course is a survey of the Physics of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, and losses. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**PHYS 4350B. Relativity.**

This course includes a review of Special Relativity, an introduction to the mathematics of tensor calculus and differential geometry, and such topics from General Relativity as the Schwarzschild solution and black holes, tests of General Relativity, cosmological models, and applications of relativity in the Global Positioning System (GPS). Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**PHYS 4350C. Physics Cognition and Pedagogy II.**

This course addresses historical, philosophical, and cognitive perspectives on the learning, teaching, and discovery of physics, including results from contemporary research on learning. It is recommended for students pursuing teacher certification. Prerequisite: PHYS 3210 and PHYS 3312 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of Arts (B.A.) Major in Physics

### Minimum required: 120 semester hours General Requirement

1. The major requires 35 hours.

Freshman			
	First Semester	Hours	Second Semester
	Hours		Hours
MATH 2471	4	PHYS 1430	4
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
COMM 1310	3		
	14		14

**Sophomore**

First Semester	Hours	Second Semester	Hours
PHYS 2425	4	PHYS 2435	4
CHEM 1141 <sup>1</sup>	1	CHEM 1142 <sup>1</sup>	1
CHEM 1341 <sup>1</sup>	3	CHEM 1342 <sup>1</sup>	3
Modern Language 1410	4	Modern Language 1420	4
Social and Behavioral Sciences Component <sup>2</sup>	3	PHIL 1305 or 1320	3
	15		15

**Junior**

First Semester	Hours	Second Semester	Hours
PHYS 3312	3	PHYS 3320	3
MATH 3373	3	PHYS 3411	4
Modern Language 2310	3	MATH 3323	3
HIST 1320	3	Modern Language 2320	3
English Literature <sup>2</sup>	3	POSI 2320	3
	15		16

**Senior**

First Semester	Hours	Second Semester	Hours
PHYS Electives	3-4	PHYS Electives	10-12
Minor/Electives <sup>3,4,5</sup>	6	Minor/Electives <sup>3,4</sup>	6
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
Second English Literature <sup>2,5</sup>	3		
	15		16

Total Hours: 120

- <sup>1</sup> BIO 1330/BIO 1130 and BIO 1331/BIO 1131 may be taken instead of CHEM 1141, CHEM 1341 and CHEM 1142, CHEM 1342 listed below.
- <sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements.
- <sup>3</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- <sup>4</sup> Majors should consult the department advisor or the College of Science and Engineering Advising Center before choosing a minor and the electives.
- <sup>5</sup> ENG 3303 Technical Writing course can be substituted for the second English literature course from the general education core curriculum.

**PHYS Electives**

At least 13-16 advanced PHYS chosen from:

PHYS 3210	Physics Cognition and Pedagogy	2
PHYS 3311	Mechanics I	3
PHYS 3315	Thermodynamics	3
PHYS 3416	Applied Electronics	4
PHYS 3417	Optics	4
PHYS 4305	Statistical Physics	3
PHYS 4310	Electromagnetic Field Theory I	3
PHYS 4311	Condensed Matter Physics	3



PHYS 4312	Quantum Mechanics I	3
PHYS 4313	Quantum Mechanics II	3
PHYS 4314	Mechanics II	3
PHYS 4315	Electromagnetic Field Theory II	3
PHYS 4317	Computational Physics (fall)	3
PHYS 4320	Selected Study in Physics	3
PHYS 4321	Undergraduate Research (see dept.)	3
PHYS 4340	Materials Physics Laboratory (spring)	3

Or courses approved by the department advisor

## Bachelor of Science (B.S.) Major in Physics

**Minimum required: 120 semester hours.**

### General Requirement

1. The major requires at least 48-50 hours.

Freshman			
First Semester		Hours	
Second Semester		Hours	
MATH 2471	4	PHYS 1430	4
US 1100	1	MATH 2472	4
ENG 1310	3	ENG 1320	3
POSI 2310	3	HIST 1310	3
COMM 1310	3		
14		14	

Sophomore			
First Semester		Hours	
Second Semester		Hours	
PHYS 2425	4	PHYS 2435	4
MATH 3323	3	MATH 3373	3
CHEM 1141 <sup>1</sup>	1	CHEM 1142 <sup>1</sup>	1
CHEM 1341 <sup>1</sup>	3	CHEM 1342 <sup>1</sup>	3
PHIL 1305 or 1320	3	English Literature <sup>2</sup>	3
		Minor <sup>3</sup>	3
14		17	

Junior			
First Semester		Hours	
Second Semester		Hours	
PHYS 3312	3	PHYS 3320	3
PHYS 3311	3	PHYS 3411	4
Social and Behavioral Sciences Component <sup>2</sup>	3	Electives/Minor <sup>3,4,5</sup>	6
HIST 1320	3	POSI 2320	3
Select one of the following:	3		
ART 2313			
DAN 2313			
MU 2313			
TH 2313			
15		16	

Senior			
First Semester		Hours	
Second Semester		Hours	
PHYS 4310	3	PHYS 4312	3
PHYS Electives	9-11	PHYS 4315	3
Electives/Minor <sup>3,4,5</sup>	4	PHYS Electives	4-6

Electives/Minor <sup>3,4,5</sup>	4-5
16	14

Total Hours: 120

<sup>1</sup> BIO 1330/BIO 1130 and BIO 1331/BIO 1131 may be taken instead of CHEM 1141, CHEM 1341, and CHEM 1142, CHEM 1342 listed below

<sup>2</sup> See the Academic Services section of this catalog for general education core curriculum requirements.

<sup>3</sup> Recommended minor is mathematics. Minors and electives should be chosen in consultation with the academic advisor.

<sup>4</sup> A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.

<sup>5</sup> If two years of the same foreign language were taken in high school, then no additional language hours required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

### PHYS Electives

At least 13-15 advanced PHYS chosen from:

PHYS 3210	Physics Cognition and Pedagogy	2
PHYS 3315	Thermodynamics	3
PHYS 3416	Applied Electronics	4
PHYS 3417	Optics	4
PHYS 4305	Statistical Physics	3
PHYS 4311	Condensed Matter Physics	3
PHYS 4313	Quantum Mechanics II	3
PHYS 4314	Mechanics II	3
PHYS 4317	Computational Physics (fall)	3
PHYS 4320	Selected Study in Physics	3
PHYS 4321	Undergraduate Research (see dept.)	3
PHYS 4340	Materials Physics Laboratory (spring)	3

Or courses approved by the department advisor

## Bachelor of Science, Major in Physics (Teacher Certification in Physical Science, Grades 6-12)

**Minimum Required: 129 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
2. See the Core Curriculum section of the catalog for general education core curriculum requirements.
3. If two years of the same foreign language were taken in high school, then no additional language hours are required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
4. A minor in Secondary Education is required.

## Freshman

First Semester	Hours	Second Semester	Hours
PHYS 1430	4	PHYS 2425	4
MATH 2471	4	MATH 2472	4
US 1100	1	ENG 1320	3
ENG 1310	3	HIST 1310	3
COMM 1310	3		
15		14	

## Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 2435	4	PHYS 3320	3	HIST 1320	3
MATH 3373	3	MATH 3323	3	POSI 2310	3
CHEM 1141	1	CHEM 1142	1	POSI 2320	3
CHEM 1341	3	CHEM 1342	3	Choose one from:	3
PHIL 1305 or 1320	3	ENG Literature	3	ART 2313	
		PHYS 3210	2	DAN 2311	
				MU 2313	
				TH 2313	
14		15		12	

## Junior

First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 4310	3	PHYS 3311	3	CHEM 3410	4
PHYS 3312	3	PHYS 3411	4		
Social and Behavioral Science	3	CI 4332	3		
CI 3325	3	PHYS Elective <sup>1</sup>	3-4		
CHEM 2130	1	CHEM 2350	3		
CHEM 2330	3				
16		16		4	

## Senior

First Semester	Hours	Second Semester	Hours
PHYS 4312	3	EDST 4681	6
RDG 3323	3		
CI 4343	3		
CI 4370	3		
PHYS Elective <sup>1</sup>	3-4		
CHEM 4295	2		
17		6	

Total Hours: 129

<sup>1</sup> Choose two courses from the following with advisor approval: PHYS 3416, PHYS 3417, PHYS 4305, PHYS 4311, PHYS 4313, PHYS 4314, PHYS 4315, PHYS 4317, PHYS 4320, PHYS 4321, PHYS 4340.

## Bachelor of Science (B.S.) Major in Physics (Teacher Certification in Physics/Mathematics, Grades 7-12)

**Minimum Required: 128 semester hours**

### General Requirements

- A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate. An advanced course is one that is numbered above 3000 and below 5000.
- See the Core Curriculum (<http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum>) section of this catalog for general education core curriculum requirements.
- If two years of the same foreign language were taken in high school, then no additional language hours are required for the degree. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.
- A minor in Secondary Education is required.

## Freshman

First Semester	Hours	Second Semester	Hours
PHYS 1430	4	PHYS 2425	4
MATH 2471	4	MATH 2472	4
US 1100	1	ENG 1320	3
ENG 1310	3	HIST 1310	3
COMM 1310	3		
15		14	

## Sophomore

First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 2435	4	PHYS 3320	3	HIST 1320	3
MATH 3373	3	MATH 3323	3	POSI 2310	3
CHEM 1141	1	CHEM 1142	1	POSI 2320	3
CHEM 1341	3	CHEM 1342	3	Choose one from:	3
PHIL 1305 or 1320	3	ENG Literature	3	ART 2313	
		PHYS 3210	2	DAN 2311	
				MU 2313	
				TH 2313	
14		15		12	

## Junior

First Semester	Hours	Second Semester	Hours	Summer	Hours
PHYS 4310	3	PHYS 3311	3	MATH 3315	3
PHYS 3312	3	PHYS 3411	4	MATH 3330	3
Social and Behavioral Science	3	CI 4332	3	MATH 4304	3
CI 3325	3	PHYS Elective <sup>1</sup>	3-4		
MATH 3305	3				
15		13		9	

First Semester	Hours	Second Semester	Hours
PHYS 4312	3	EDST 4681	6
RDG 3323	3		
CI 4343	3		
CI 4370	3		
PHYS Elective <sup>1</sup>	3-4		
	15		6

Total Hours: 128

<sup>1</sup> For the PHYS Electives, choose two courses from the following with advisor approval: PHYS 3416, PHYS 3417, PHYS 4305, PHYS 4311, PHYS 4313, PHYS 4314, PHYS 4315, PHYS 4317, PHYS 4320, PHYS 4321, PHYS 4340.

## Minor in Physics

A minor in Physics requires:

PHYS 1430	Mechanics	4
PHYS 2425	Electricity and Magnetism	4
PHYS 2435	Waves and Heat	4
PHYS 3312	Modern Physics	3
Advanced Physics		6
Total Hours		21

## University College

### Dean

Daniel A. Brown, Ph.D.  
T: 512.245.3579 F: 512.245.8765  
Undergraduate Academic Center Room 149  
[www.txstate.edu/ucollege](http://www.txstate.edu/ucollege) (<http://www.txstate.edu/ucollege>)

### Associate Dean

Michael E. Nava, Ph.D.

### Associate Dean

Kambra K. Bolch, J.D.

### Program Directors

Athletic Academic Center—Lauren M. Hindson, M.S.  
CHAMPS Life Skills—John Anderson M.Ed.  
General Studies—Jeremy S. Roethler, Ph.D.  
National Student Exchange—Lisa Chrans, M.A.  
PACE Advising and Academic Coaching Services—Angelica M. Barrera, M.S.  
PACE Center—Daniel A. Brown, Ph.D.  
PACE Mentoring Services—Michael E. Nava, Ph.D.  
Title V HSI—Herminio Ibañez, M.A.  
University College Advising Center—Amelia I. Beck, M.A.  
University Seminar—Kambra K. Bolch, J.D.

## Academic Advising Centers

### PACE Center

Undergraduate Academic Center Room 120  
T: 512.245.7223 F: 512.245.8765  
<http://pace.txstate.edu/>

### Senior

### University College Advising Center

Undergraduate Academic Center Room 120  
T: 512.245.2218 F: 512.245.8765  
[www.ucollege.txstate.edu/advising/](http://www.ucollege.txstate.edu/advising/) (<http://www.ucollege.txstate.edu/advising/>)

University College houses two academic advising centers, the PACE Center and University College Advising Center (UCAC). The PACE Center serves first-time-in-college students with fewer than 16 college credit hours completed after high school graduation, and UCAC serves Exploratory, Exploratory Professional, and Bachelor of General Studies majors.

At Texas State students begin their educational journey at the PACE Center—the University's commitment to Personalized Academic and Career Exploration. It reflects a philosophy of enhancing student achievement within and outside the classroom through four student-centered programs:

1. Academic Advising - helps students select the right classes, build a class schedule customized to meet their personal and academic needs, and develop a plan for educational success focused on graduation.
2. Career Counseling - helps students clarify career interests and develop the resume needed to successfully transition to the professional world.
3. Mentoring - helps students become engaged in their major and connect to mentors and peers, and develop networking skills essential to career success.
4. University Seminar (US 1100) - this required course helps students transition to Texas State by leading them in discovering campus support networks, offering opportunities to make new friends, and providing mentoring from one of the University's exceptional faculty.

University College Advising Center provides academic advising for students who are undecided about a major, those who are changing majors, those who are working toward admission into a particular program, and those majoring in General Studies. Advisors will assist students in researching options, evaluating alternatives, and making decisions so that they may make realistic and satisfying choices of majors. They will also provide guidance in completing general education requirements. The advising goal is to provide accessible, friendly, an accurate advising.

University College Advising Center and PACE Center are located on the first floor of the Undergraduate Academic Center and is open between 8:00 a.m. and 5:00 p.m., Monday through Friday. Services include one-on-one appointments, advising sessions before and during registration, and probation advising sessions.

## Bachelor of General Studies

The Bachelor of General Studies (B.G.S.) provides an individualized, interdisciplinary degree that allows students with a broad range of academic interests to achieve personal educational goals. The program helps each student who enters develop a unique career or academic goal that is matched by three Texas State minors. Those best suited for the B.G.S. (1) have a clear interest that overlaps the boundaries or blends the disciplinary areas of other academic majors available at Texas State; (2) have invested in a traditional degree program but wish to redirect their career or academic goals while building on some of the courses already completed; or (3) have difficulty choosing an existing major and

are willing to assemble three minors based on organized career research and preparation.

The B.G.S. starts with GNST 3350 – Interdisciplinary Preparation, a course that helps students learn how to assess their talents, match them with potential careers, and maximize or choose three Texas State minors to best prepare them for the requirements of the career. Then they practice interviewing and preparing resumes, cover letters, etc., and discover how to market themselves. Following completion of most of the courses in the three B.G.S. minors, the capstone B.G.S. course (GNST 4350 – Interdisciplinary Project) challenges students to make use of their education in tailoring a research-based project that innovatively contributes to the career or academic goal, incorporates all three minors, and gives them good supporting material to use in job interviews and graduate and professional school applications.

Information about admission into the B.G.S. is available at [www.txstate.edu/ucollege/bgs](http://www.txstate.edu/ucollege/bgs). (<http://www.txstate.edu/ucollege/bgs.html>)

As with any major, it is important to check with a University College advisor on a regular basis to ensure that progress is being made in meeting B.G.S. program requirements.

The following B.G.S. policies are particularly important to note:

- In order to be advised for the B.G.S. program, register for GNST 3350 or GNST 4350, or enter the B.G.S. program, students must be in good academic standing at Texas State University. Those who are not in good academic standing and/or have questions about potential majors may make an appointment with University College Exploratory advisors.
- Only B.G.S. majors may register for GNST 3350 and GNST 4350 and both courses must be successfully completed at Texas State in order to be applied to the B.G.S. degree. (Under some circumstances, students with Honors minors may be allowed to substitute HON 4390B-Honors Thesis if the topic meets the requirements of GNST 4350.)
- Successful completion (C or higher) of GNST 3350 is required before taking GNST 4350. These courses may not be taken concurrently. Both courses are offered each semester, including summer. They are not available online.
- Each B.G.S. minor requires at least 12 advanced hours, so B.G.S. minors may differ from the minors offered by the departments in that regard.
- Certain minor combinations may not be allowed if the coursework or content is duplicative. A course may be counted toward more than one minor only if it is specifically required by those minors. Once minors are matched with the career choice, they may not be changed without consultation with and approval of B.G.S. faculty.
- Both GNST 3350 and GNST 4350 as well as all courses that are part of the three B.G.S. minors must be completed with a grade of C or higher. In addition to a minimum Texas State GPA of 2.0, graduation with a B.G.S. degree requires a GPA of 2.25 in each B.G.S. minor.

## Writing Intensive

Certain Texas State courses are designated as “writing intensive” and are labeled as (WI) in this catalog and the schedule of classes. In order to achieve this status, at least 65% of the course grade must be based on written assignments and a minimum of one extended piece of writing must be required. Academic colleges require a minimum of 9 credit hours of these courses for graduation. In addition to certain major and elective

courses, the two history and two philosophy courses included in the general education core curriculum are writing intensive. These courses as well as other courses appropriate for writing intensive credit must be taken at Texas State. The University College Associate Dean manages Writing Intensive Courses.

## Transfer Students

Students transferring from other institutions of higher education will have their transcripts initially evaluated by the Undergraduate Admissions Office to determine which courses will apply to Texas State requirements. Under the provisions of the Texas general education core curriculum, Texas State must accept courses that fulfill the core curriculum at other Texas public institutions (indicated by a 3-digit code on the transcript), and may not accept other courses unless they are equivalent to the required Texas State course. Students seeking more specific evaluation of courses from out-of-state or private institutions for fulfillment of general education core curriculum components may contact University College to initiate the process. Students should be prepared to provide documentation such as catalog descriptions, course syllabi and textbook information to facilitate verification of course content.

## National Student Exchange

The National Student Exchange (NSE) is a University College program that offers Texas State students a unique opportunity to expand their educational horizons by enrolling at a participating university for one or two semesters while paying an in-state resident tuition rate. Students can benefit from the NSE program by accessing different courses, internships, career options, and exploring graduate schools at over 200 colleges and universities in the United States, U.S. territories (including Guam, Puerto Rico, and the U.S. Virgin Islands) and Canada.

Credits earned at these host institutions can be transferred back to Texas State, allowing students to maintain progress toward their academic objectives. For the privilege of NSE participation, Texas State students enjoy in-state tuition and fees at their host institution on Plan A payment status, or 15 hours of coursework at Texas State in-state rates on Plan B payment.

Applications for the NSE program are due in February for fall and spring exchanges. Requirements of the program include a 2.5 cumulative GPA, completed application and a \$185 application fee. For more information about the National Student Exchange, contact University College or refer to the Texas State-NSE web site at [www.txstate.edu/ucollege/programs/nse.html](http://www.txstate.edu/ucollege/programs/nse.html) (<http://www.txstate.edu/ucollege/programs/nse.html>).

## Bachelor of General Studies (B.G.S.)

- Major in General Studies (p. 548)

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Information about graduate programs can be found in the Graduate Catalog (p. 550).

## Courses in General Studies (GNST)

### GNST 3150. Career and Major Exploration.

Students unsure about career choice will determine interests and abilities linked to appropriate careers and the Bachelor of General Studies (BGS) or other majors. Varied group and individual projects will be guided by instructional teams from the PACE Center and/or Career Services.

Required for some BGS major options. Prerequisite: Instructor permission

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### GNST 3350. Interdisciplinary Preparation.

This course includes assignments designed to encourage self-analysis of career interests and planning, and selection of component minors for BGS majors. Students will develop a degree plan matched to their career interests and/or their initial proposal for the GNST 4350 project.

Successful completion requires a grade of C or higher. Prerequisite:

Declaration of the BGS major, Texas State GPA 2.0 or better, instructor permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### GNST 4350. Interdisciplinary Project.

In this course students will complete an applied, interdisciplinary project incorporating all BGS component minors. The Project will consist

of research, interviews, literature reviews, graphic support and other

information gathering, presentation and analysis resulting in a written

product targeted at the student's chosen area. Prerequisite: GNST 3350

with a grade of "C" or higher, Texas State GPA 2.0 or better, and instructor permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Bachelor of General Studies (B.G.S.) Major in General Studies

**Minimum required: 120 semester hours**

### General Requirements

1. A minimum of 9 writing intensive hours and a total of 36 advanced hours are required to graduate.
2. If two years of the same foreign language were taken in high school, then enough additional hours to total the minimum 120 hours required for the degree will fulfill this requirement. In the absence of such high school language, two semesters of the same foreign language must be taken at the college level.

Freshman	Hours
COMM 1310	3
Social and Behavioral Sciences	3
Mathematics	3
ENG 1310	3
ENG 1320	3
US 1100 <sup>1</sup>	1
POSI 2310	3
HIST 1310	3
PHIL 1305 or 1320	3

Select one of the following:	3
ART 2313	
DAN 2313	
MU 2313	
TH 2313	
POSI 2320	3

31

Sophomore	Hours
English Literature	3
HIST 1320	3
Life and Physical Sciences	6
Minor	15
Electives	3

30

Junior	Hours
GNST 3350	3
Electives	9
Minor	18

30

Senior	Hours
GNST 4350	3
Electives	5
Minor	21

29

Total Hours: 120

<sup>1</sup> US 1100 is only required for PACE students.

## University Seminar

Undergraduate Academic Center Room 146

T: 512.245.7952 F: 512.245.7908

[www.txstate.edu/ucollege/universityseminar](http://www.txstate.edu/ucollege/universityseminar) (<http://www.txstate.edu/ucollege/universityseminar>)

University Seminar (US 1100) helps incoming freshmen transition to college life and is designed to be taken during a student's first semester at Texas State. Its small class setting allows students to get to know each other as well as their instructor. Classes meet once a week for 16 weeks during the fall semester.

University Seminar connects new students to the campus and its resources, gets them involved in the university community, and supports PACE initiatives through related instruction, activities, and guidance. Through US 1100 career readiness projects, students learn about individual career interests, find organizations and activities related to their academic fields, and develop a plan that will lead to graduation and professional success.

The course is taught by a diverse group of professors, staff members, and administrators from departments across the Texas State campus. All instructors have at least a master's degree and lend their unique and varied perspectives to enrich each classroom. Distinct sections of the course may serve freshmen with common interests. These are labeled in the Schedule of Classes.

Subjects in this department include: US



## Course in University Seminar (US)

### US 1100. University Seminar.

University Seminar is an introduction to the nature and aims of university education, with special emphasis on the value of broad learning. US 1100 is required of all undergraduate students entering the university with 0-15 semester credit hours completed since high school graduation

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Texas Success Initiative Program

Undergraduate Academic Center, First Floor

T: 512.245.3942 F: 512.245.7648

[www.txstate.edu/tsip](http://www.txstate.edu/tsip) (<http://www.txstate.edu/tsip>)

The Texas Success Initiative Program (TSIP) is a statewide initiative created to improve student success in college-level coursework. As part of the program, all students enrolled in Texas public colleges or universities complete required assessments to determine math, reading, and writing proficiency. Developmental course instruction is provided to students needing to strengthen their basic academic skills. More information about this program, assessment requirements, and exemptions can be found in the Academic Policies section of the catalog under Texas Legislative Requirements.

## Athletic Academic Center

Harris Hall 1st Floor

T: 512.245.2978 F: 512.245.1736

[www.txstatebobcats.collegesports.com/academic/txst-academics.html](http://www.txstatebobcats.collegesports.com/academic/txst-academics.html)  
(<http://www.txstatebobcats.collegesports.com/academic/txst-academics.html>)

The Athletic Academic Center (AAC), located on the lower level of Harris Dining Hall, provides services and resources that aid student-athletes in maintaining excellence both in the classroom and on the playing field. The AAC staff strives to ensure the fulfillment of all five components of the program: Academic Excellence, Athletic Excellence, Community Service, Career Development, and Personal Development.

The AAC, open six days a week, houses a computer lab, a learning lab, individual tutoring rooms, areas for both individual and group study, and offices for the AAC staff. The ACC is staffed by an assistant dean and director, a CHAMPS Life Skills director, an associate director, two student development specialists, an administrative assistant and a graduate student who serve as liaisons between the Athletic Department, college academic advising centers and academic departments, and the administrative units of the University. In coordination with the Assistant Athletic Director for Compliance, the AAC staff also monitors academic eligibility and ensures that all athletes are maintaining satisfactory progress toward their degrees.

# GRADUATE

Texas State will not discriminate against any person in employment or exclude any person from participating in or receiving the benefits of any of its activities or programs on any basis prohibited by law, including race, color, age, national origin, religion, sex, disability, veterans' status, or the basis of sexual orientation. Equal employment opportunities shall include: personnel transactions of recruitment, employment, training, upgrading, promotion, demotion, termination, and salary.

The information in the 2016-2017 Graduate Catalog is subject to change without notice and may not reflect the most recent changes. This catalog is a general information publication only. It is not intended to nor does it contain all regulations that relate to students. In the event of a conflict between the provisions of this catalog and the *Rules and Regulations* of the Board of Regents of the Texas State University System, the latter shall prevail. The provisions of this catalog do not constitute a contract, express or implied, between an applicant, a student, a faculty member, or a staff employee and Texas State University or the Texas State University System. Texas State reserves the right to withdraw courses at any time, to change fees or tuition, calendar, curriculum, degree requirements, admissions and graduation requirements or procedures, and other requirements affecting students. Changes will become effective whenever authorities determine and will apply to both prospective students and those already enrolled. Questions regarding current information should be addressed to the Office of the Provost and Vice President for Academic Affairs.

This catalog was published in May 2016 and becomes effective with the beginning of the fall semester, 2016.

**Please use one of these recommended browsers for the best performance of this system:  
Chrome or Firefox.**

## General Information

### University Organization

Texas State University is organized into the College of Applied Arts, the Emmett and Miriam McCoy College of Business Administration, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, the College of Science and Engineering, the Honors College, the University College, and The Graduate College.

## Overview of Graduate Studies

### Authorization

The establishment of The Graduate College at Texas State was authorized by the Board of Regents at its meeting on June 15, 1935. Graduate courses were first offered during the summer of 1936, and the first master of arts degree was conferred at the 1937 spring commencement. The first doctoral programs were authorized by the Board of Regents in 1996 in geographic education and environmental geography. The first doctorates were awarded in 2000.

### Objectives of The Graduate College

The purpose of The Graduate College is to provide the means for continued intellectual growth through advanced and specialized education. The ultimate aim is to develop leaders that will make significant professional contributions to their fields of specialization.

More explicitly, The Graduate College has adopted the following objectives that will add both breadth and depth to the academic and professional preparation received at the undergraduate and master's degree levels:

- To reinforce and extend students' academic and professional experience as a means of improving professional competence;
- To afford students with the opportunity to undertake original research in their areas of specializations, both independently and in collaboration with the faculty;
- To provide students with the ability and resources to integrate their research into the community of scholars and professionals in a particular academic discipline;
- To challenge students intellectually, to develop their powers of independent thought, and to direct them toward positions of intellectual leadership in their personal and professional lives.

## Characteristics of Graduate Study

Graduate study affords students of exceptional academic ability many opportunities to continue their intellectual growth and development. Doctoral study in particular seeks to integrate students into the professional community of scholars in a manner that emphasizes the completion, presentation, and publication of original research.

Graduate education differs from study at the undergraduate level in at least the following respects:

- Graduate students are expected to assume greater responsibility and demonstrate more self-initiative in meeting their academic goals;
- More extensive reading, emphasizing primary source material in a specialized field, is expected;
- Students are expected to become familiar with the current literature in their fields, with emphasis on recently published developments in research methods and results;
- Doctoral students are expected to assume responsibility for the planning, completion, and presentation of original scholarly research;
- Doctoral programs utilize seminar courses that stress active participation by students in intellectual exchange with both faculty and peers and in the critique of published research;
- Doctoral course work underscores integrating student research into the norms of an academic discipline.
- Master's courses differ from undergraduate courses, and doctoral courses differ from master's courses in their learning outcomes and in the breadth and depth of readings and assignments.

## Board of Regents

### The Texas State University System

Rossanna Salazar, Chairman  
*Austin*

William F. Scott, Vice Chairman  
*Nederland*

Charlie Amato  
*San Antonio*

Veronica Muzquiz Edwards  
*San Antonio*

Dr. Jaime R. Garza

*San Antonio*

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*Bellaire*

Alan L. Tinsley  
*Madisonville*

Donna N. Williams  
*Arlington*

Dylan J. McFarland, Student Regent  
*Huntsville*

Brian McCall, Ph.D., *Chancellor*

## University Administration

Denise M. Trauth, Ph.D.  
*President*

Eugene J. Bourgeois, Ph.D.  
*Provost and Vice President for Academic Affairs*

Eric Algoe, M.B.A.  
*Vice President for Finance and Support Services*

Joanne Smith, Ph.D.  
*Vice President for Student Affairs*

Kenneth Pierce, M.S.  
*Vice President for Information Technology*

Vicki Brittain, Ph.D.  
*Special Assistant to the President*

Barbara Breier, Ph.D.  
*Vice President for University Advancement*

Lawrence Teis, Ph.D.  
*Director of Athletics*

## Academic Deans

T. Jaime Chahin, Ph.D.  
*College of Applied Arts*

Denise T. Smart, Ph.D.  
*Emmett and Miriam McCoy College of Business Administration*

D. Stanley Carpenter, Ph.D.  
*College of Education*

John Fleming, Ph.D.  
*College of Fine Arts and Communication*

Andrea Golato, Ph.D.  
*The Graduate College*

Ruth B. Welborn, Ph.D.  
*College of Health Professions*

Heather C. Galloway, Ph.D.

*Honors College*

Michael Hennessy, Ph.D.  
*College of Liberal Arts*

Christine E. Hailey, Ph.D.  
*College of Science and Engineering*

Daniel A. Brown, Ph.D.  
*University College and Director of the PACE Center*

## Accreditations

### Texas State is accredited by the following

- AACSB International-The Association to Advance Collegiate Schools of Business
- ABET, Inc.- Accreditation Board for Engineering and Technology
- Academy of Nutrition and Dietetics, Accreditation Council for Education in Nutrition and Dietetics
- Accrediting Council on Education in Journalism and Mass Communications
- American Academy of Sleep Medicine
- American Bar Association, Council on the Section of Legal Education
- American Council for Construction Education
- American Physical Therapy Association, Commission on Accreditation in Physical Therapy Education
- American Society of Biochemistry and Molecular Biology
- American Speech-Language-Hearing Association, Council on Academic Accreditation in Audiology and Speech-Language Pathology
- American Psychological Association
- Association of University Programs in Health Administration
- Commission on Accreditation for Health Informatics and Information Management Education
- Commission on Accreditation for Respiratory Care
- Commission on Accreditation of Athletic Training Education
- Commission on Accreditation of Healthcare Management Education
- Commission on Collegiate Nursing Education
- Commission on English Language Program Accreditation
- Concrete Industry Management
- Council for Accreditation of Counseling and Related Educational Programs
- Council for the Accreditation of Educator Preparation
- Council for Interior Design Accreditation
- Council on Social Work Education, Office of Social Work Accreditation, Commission on Accreditation
- Foundry Education Foundation
- International School Psychology Association
- Joint Review Committee on Education in Radiologic Technology
- National Accrediting Agency for Clinical Laboratory Sciences
- National Association for the Education of Young Children
- National Association of School Psychologists
- National Association of Schools of Music, Commission on Accreditation
- National Recreation and Park Association, Council on Accreditation of Parks, Recreation, Tourism, and Related Professions

- Network of Schools of Public Policy, Affairs, and Administration, Commission of Peer Review and Accreditation
- Teacher Education Accreditation Council, Inc.
- University Council for Educational Administration

## History of the University

Authorized by the Texas Legislature in 1899, Southwest Texas State Normal School opened its doors in 1903. During the first century, the Legislature retained the regional designation in the name, but as its mission changed it became first Normal College, then successively Teachers College, College and University. These changes reflected the change from a teacher-preparation institution to a regional university. In 2003 the Legislature dropped the regional designation and the institution became Texas State University-San Marcos, and in 2013 the place name itself was eliminated as the Legislature viewed Texas State University as an emerging research university within the State.

Texas State's original mission was to prepare Texas public school teachers, especially those of the south central area. It became renowned for carrying out this mission, but today it does far more. Texas State currently offers programs in the College of Applied Arts, Emmett and Miriam McCoy College of Business Administration, College of Education, College of Fine Arts and Communication, College of Health Professions, Honors College, College of Liberal Arts, College of Science and Engineering, and University College. The University College oversees undergraduate advising as well as the freshman year experience. The Graduate College provides opportunities for continued intellectual growth through advanced and specialized education that develops leaders in the professions and in research.

As Texas State's student population has grown — from 303 in 1903 to more than 37,000 in 2015 — the campus, too, has expanded and today Texas State is the sixth largest public university in the state. Overlooking the campus and serving as a landmark since 1903 is Old Main, a red-gabled Victorian building restored to its original grandeur.

In 1979, after adding a number of classroom buildings and residence halls, Texas State purchased the former San Marcos Baptist Academy adjacent to the original campus. In 1981, South Texas entrepreneur Harry M. Freeman donated a 3,500-acre ranch to Texas State to be held in perpetual trust as the Harold M. Freeman Educational Foundation. The working ranch is used as a laboratory for students in agriculture, animal science, biology and a variety of other academic disciplines. In 1990, the university opened the Albert B. Alkek Library. The building, conveniently located in the center of campus, is named for the noted Texas rancher, oil man and educational philanthropist who died in 1995.

Texas State acquired one of the most unique ecosystems in the world in 1994 when it purchased the former Aquarena Springs resort and theme park. The purchase allowed Texas State to serve as steward of the headwaters of the San Marcos River, preserving and protecting the area for future generations of Texans. Now called the Aquarena Center, the 90-acre property is the site of a wide variety of educational and research pursuits. Aquarena Center is home to several endangered species of plants and animals that exist nowhere else in the world.

In 1998, as the lead institution, Texas State joined forces with other area universities to establish the Round Rock Higher Education Center, now known as the Texas State University Round Rock Campus (RRC). The RRC, located on 101 acres in northeast Round Rock, offers upper-division and graduate educational opportunities in Williamson County and Austin.

Texas State is located in San Marcos, a Hill Country community about halfway between Austin and San Antonio. Its location on the banks of the San Marcos River provides recreational and leisure activities for students throughout the year.

Texas State became part of The Texas State University System in 1911. That System is governed by a nine-member Board of Regents. Other components in the System include Lamar University-Beaumont, Lamar University Institute of Technology, Lamar College—Orange, Lamar College—Port Arthur, Sam Houston State University and Sul Ross State University. The first president of Texas State was Mr. T.G. Harris, who served from 1903 to 1911. He was followed by Dr. C.E. Evans, 1911–1942; Dr. J.G. Flowers, 1942–1964; Dr. James H. McCrocklin, 1964–1969; Dr. Leland E. Derrick, 1969; Dr. Billy Mac Jones, 1969–1973; Mr. Jerome C. Cates, 1973–1974; Dr. Lee H. Smith, 1974–1981; Mr. Robert L. Hardesty, 1981–1988; Dr. Michael L. Abbott, 1988–1989; Dr. Jerome Supple, 1989–2002, and Dr. Denise M. Trauth, 2002–present.

## Graduate Council

Dr. Andrea Golato, Dean, The Graduate College, Chair

Dr. Angela Ausbrooks, Associate Professor, Social Work (2016-2019)

Dr. Andy Batey, Chair and Associate Professor, Engineering Technology (1988-2017)

Dr. Chad Booth, Associate Professor, Chemistry and Biochemistry (2009-2018)

Dr. Amanda Boutot, Associate Professor, Curriculum and Instruction (2017-2019)

Dr. Scott Bowman, Associate Professor, Criminal Justice (2015-2018)

Dr. Emily Brunson, Assistant Professor, Anthropology (2016-2019)

Dr. William Chittenden, Associate Professor, Finance and Economics (2013-2019)

Dr. Paul Cohen, Professor, English (2000-2019)

Dr. Joellen Coryell, Assistant Professor, Counseling, Leadership, Adult Education, and School Psychology (2014-2017)

Dr. Celeste Domsch, Associate Professor, Communication Disorders (2014-2017)

Dr. Matthew Eichler, Associate Professor, Occupational, Workforce and Leadership Studies (2014-2019)

Dr. Patti Giuffre, Professor, Sociology (2013-2019)

Dr. Paul Hart, Associate Professor, International Studies (2016-2019)

Dr. David Herda, Assistant Professor, Accounting (2016-2019) (R)

Dr. Gwendolyn Hustvedt, Associate Professor, Family and Consumer Sciences (2015-2018)

Dr. Maureen Keeley, Professor, Communication Studies (2014-2017)

Dr. Jason Kwak, Professor, Music (2016-2019)

Dr. Kim Lee, Assistant Professor, Health Administration (2014-2017)

Dr. David Lemke, Professor, Biology (2006-2018)

Dr. Shirley Levenson, Clinical Assistant Professor, St. David's School of Nursing (2013-2019)

Dr. Yongmei Lu, Professor, Geography (2015-2018)

Dr. Sandra Mayo, Associate Professor, Theatre and Dance (2013-2019)

Dr. Audrey McKinney, Associate Professor, Philosophy (2013-2019)

Dr. Karen Meaney, Professor, Health and Human Performance (2015-2018)

Dr. Rebecca Montgomery, Associate Professor, History (2013-2019)

Dr. Judy Oskam, School Director and Professor, Journalism and Mass Communication (2016-2019)

Mr. Matt Painter, Senior Lecturer, Management (2011-2017)

Dr. Greg Passty, Professor, Mathematics (2007-2019)

Dr. Wuxu Peng, Professor, Computer Science (2014-2017)

Dr. J. Yuri Porras, Associate Professor, Modern Languages (2014-2017)

Dr. Nandhini Rangarajan, Associate Professor, Political Science (2016-2019)

Ms. Claudia Roeschmann, Associate Professor, Art and Design (2010-2019)

Dr. Ty Schepis, Associate Professor, Psychology (2016-2019)

Dr. Jaymeen Shah, Associate Professor, Computer Information Systems and Quantitative Methods (2015-2018)

Dr. Nikoleta Theodoropoulou, Associate Professor, Physics (2014-2017)

Dr. Vishu Viswanathan, Professor, Ingram School of Engineering (2014-2017)

Dr. Dexter Wakefield, Assistant Professor, Agriculture (2016-2019)

Dr. Tiankai Wang, Associate Professor, Health Information Management (2015-2018)

Dr. Gail Zank, Associate Professor, Marketing (2002-2017)

a. articulating, promoting, and supporting the highest standards of quality in graduate education in keeping with the University's overall mission of teaching, research, and public service;

b. constructing and maintaining an environment conducive to successful graduate education in concert with all graduate programs;

c. supporting programs' efforts to foster a diverse student population who participate in a global society;

d. promoting and supporting rigor in graduate education;

e. providing key process and procedure guidance and support to graduate programs from admission to graduation;

f. aiding in student recruitment, application processing, policy monitoring, and degree auditing;

g. leading initiatives designed to provide best practices in graduate education leading to timely degree completion;

h. providing graduate student support for creative and scholarly activities;

i. offering professional development opportunities for graduate students at key stages in their graduate career; and

j. engaging in research on graduate education.

The stakeholders of The Graduate College include students, faculty, and staff involved in graduate education at Texas State University.

## Ex Officio

Dr. Gene Bourgeois, Provost and Vice President for Academic Affairs

Mr. Louis Jimenez, University Registrar, Office of University Registrar

Dr. Denise M. Trauth, President, Texas State University

## Function

Recommends Graduate College policies to the Dean of The Graduate College, who in turn administers the policies or submits recommendations to the Provost and Vice President for Academic Affairs and the President's Cabinet. The Graduate Council also reviews standards for admissions, retention and enrollment patterns, in concurrence with the Dean. The Graduate Council also approves membership standards for graduate faculty.

Updated 7/28/2016

## Mission Statement

"The noblest search is the search for excellence."

—Lyndon B. Johnson

Thirty-Sixth President of the United States, 1963–1969  
Texas State University Class of 1930

Texas State University is a public, student-centered, Emerging Research University dedicated to excellence in serving the educational needs of the diverse population of Texas and the world beyond.

The mission of The Graduate College is to provide vision, leadership, and direction for excellence in graduate education at Texas State University with the aim of providing the appropriate infrastructure and learning environment for the training of innovative and successful scholars, teachers, and professionals. The Graduate College does so by

## Shared Values Statement

In pursuing our mission as a premier institution, we, the faculty, staff, and students of Texas State University, are guided by a shared collection of values. Specifically, we value:

- An exceptional undergraduate experience as the heart of what we do;
- Graduate education as a means of intellectual growth and professional development;
- A diversity of people and ideas, a spirit of inclusiveness, a global perspective, and a sense of community as essential conditions for campus life;
- The cultivation of character and the modeling of honesty, integrity, compassion, fairness, respect, and ethical behavior, both in the classroom and beyond;
- Engaged teaching and learning based in dialogue, student involvement, and the free exchange of ideas;
- Research, scholarship, and creative activity as fundamental sources of new knowledge and as expressions of the human spirit;
- A commitment to public service as a resource for personal, educational, cultural and economic development;
- Thoughtful reflection, collaboration, planning, and evaluation as essential for meeting the changing needs of those we serve.

## Multicultural Policy Statement

Texas State believes that freedom of thought, innovation and creativity are fundamental characteristics of a community of scholars. To promote such a learning environment, the university has a special responsibility to seek diversity, to instill a global perspective in its students, and to



nurture sensitivity, tolerance and mutual respect. Discrimination against or harassment of individuals on the basis of race, color, national origin, religion, sex, sexual orientation, age, or disability are inconsistent with the purposes of the university.

## Students' Rights, Privileges, and Expectations

Texas State believes that the primary purpose of higher education is to promote learning and stimulate inquiry for truth in an atmosphere of freedom. Texas State is committed to the value of a racial and ethnic diversity. Accordingly, Texas State encourages students to exercise the rights of citizenship. However, these rights are subject to reasonable limitations necessary for the orderly operation of Texas State. Texas State expects students to accept their responsibilities as citizens and members of a scholarly community. Paramount among these responsibilities is respect for the rights of others, academic and personal integrity, and adherence to federal, state, and local law as well as university regulations.

The faculty and administration are genuinely concerned with the physical and ethical welfare of students. To that end, Texas State has established rules of conduct and has published these in a Code of Student Conduct and Honor Code. These regulations guide students in achieving personal and academic goals and help the University function in an orderly way. Since students voluntarily associate themselves with Texas State, they should know that these rules are honestly and faithfully enforced. The rules include clear prohibitions against sexual or racial harassment.

Texas State has established a grievance procedure for the prompt and equitable resolution of complaints related to illegal discrimination or harassment on the basis of race, color, national origin, age, sex, religion, disability, or veterans' status. This grievance procedure is described in University Policy and Procedure Statement 04.04.46 (<http://www.txstate.edu/effective/Upps/Upps-04-04-46.html>), Prohibition of Discrimination or Harassment. Students should follow the procedures for reporting instances of discrimination or harassment.

The administration and faculty encourage students to participate in managing Texas State through its system of advisory councils and committees. Students are invited to serve as voting members of many of these groups, and are expected to contribute actively to their success. Students may submit recommendations for changes in policy, not only through the committee structure, but also through their own student government.

## Student Right-to-Know and Campus Security Act

The Student-Right-to-Know and Campus Security Act was enacted in 1990 by federal law. The law requires institutions that receive student aid assistance to prepare and distribute an Annual Security Report (Campus Watch). The Campus Watch for Texas State University at San Marcos and Round Rock campuses include descriptions of campus crime prevention programs, procedures for reporting crimes and information about the number and frequency of crimes reported to the University Police Department for the last three years. It also provides Texas State's policies for campus security and law enforcement related to sexual offenses, liquor law violations, and controlled substance offenses. In addition to publishing crime statistics, the act requires the Institute to provide timely warnings to the campus community of certain crimes

reported to the University Police Department or local law enforcement which may be considered a threat to the campus community. The Campus Watch is available on the Texas State Website at <http://www.police.txstate.edu/Clery.html>, in the Offices of Undergraduate Admissions, Graduate College, Human Resources, and the University Police Department.

For a hard copy of the Campus Watch, contact the University Police Department, Nueces Building or to have a hard copy mailed to you free of charge you may call 512-245-2890.

## Student Data, Privacy, and Communications

### Correct Data

All students are responsible for making certain Texas State has correct demographic data. A student's name will appear on official records as it is stated on the application for admission, unless a student has previously attended Texas State under a different name. Changes in name, local and/or permanent address, telephone number, marital status, etc. should be reported immediately to the Office of the University Registrar. Texas State is not responsible for loss of correspondence credits due to unreported name changes. Address changes can be submitted at <http://www.registrar.txstate.edu/our-services.html>.

## Family Educational Rights and Privacy Act of 1974 (FERPA)

FERPA protects the privacy of educational records, establishes the right of students to inspect and review their educational records, and provides guidelines for the correction of inaccurate or misleading data. Students also have the right to file complaints with the FERPA Office concerning alleged failures by Texas State to comply with the Act. University policy explains in detail the procedures to be used in complying with the act. The policy is available at <http://www.registrar.txstate.edu/persistent-links/ferpa>. The Dean of Students and the Registrar both presume that each student is independent of his or her parents when dealing with the student's educational records. Procedures for establishing dependency status are available in both offices.

### Communications

Most university offices use Texas State email as the official means of communication. Students are expected to set up and read their Texas State email frequently.

## Abandoned and Unclaimed Personal Property

Abandoned and unclaimed personal property discovered on a system university campus shall be turned over to the University Police Department for safekeeping and standardized handling. Property shall be considered abandoned if it appears from the circumstances under which the University comes into possession of the property that the owner has thrown it away, has voluntarily left it, or has lost it without any intent or expectation to regain it.

Abandoned and unclaimed personal property acquired by the police department of a system university shall be held for a minimum of one hundred and twenty (120) days from the time the department acquires the property. If the property is reclaimed during that time, the University

may charge the owner a reasonable storage fee. The University Police Department will develop appropriate procedures to facilitate the return of unclaimed personal property to the proper owners. A reasonable effort will be made to notify the owner.

After one hundred and twenty (120) days the property will be declared abandoned. After appropriate property checks that reflect the value of the property have been made, the property may be sold as part of a normal surplus property sale. For specifics on the handling and processing of abandoned and unclaimed property, please refer to University Policy and Procedure Statement 05.01.20.

## Albert B. Alkek Library

Alkek Library

[www.library.txstate.edu](http://www.library.txstate.edu) (<http://www.library.txstate.edu>)

T: 512.245.2686 F: 512.245.0392

The Alkek Library contains more than 1.5 million print materials, including books, documents, theses/dissertations, and other resources. The library provides access to 600,000 ebooks, 500+ databases, more than 180,000 audiovisual materials, and more than 700,000 microform materials.

Special holdings of the Library include the Wittliff Collections (comprised of the Southwestern Writers Collection and the Southwestern and Mexican Photography Collection,) and the University Archives. The Library is also a selective depository for federal government documents. As a member of the Texas Digital Library, the Library's Digital Collections (<http://digital.library.txstate.edu/>) provides access to unique Texas State collections, including scholarship authored by university faculty, students, and staff and selected materials from The Wittliff Collections and the University Archives.

The Library's online catalog (<http://catalog.library.txstate.edu>) provides information on the Library's holdings. Wireless access to the university network is available within the Library. Laptop computers may be checked-out for building use. The Learning Commons provides workstations, laser printers, scanners, video conferencing and video-editing equipment, presentation and GIS technology support, an Open Theater workshop space and adaptive equipment for individuals with disabilities.

The Library maintains cooperative borrowing agreements with other libraries in the region. Through TexShare, a statewide resource sharing program, students and faculty may borrow materials held by most public and private university libraries in the state. Materials may be transferred, by request, to the Texas State University Library in Round Rock.

## Career Services

LBJ Student Center, 5th Floor

[www.careerservices.txstate.edu](http://www.careerservices.txstate.edu) (<http://www.careerservices.txstate.edu>)

T: 512.245.2645

*Exemplary career services leading Texas State students into the future.*

We provide compassionate, comprehensive career assistance to the diverse Texas State family. Our services incorporate leading practices to guide students through all stages of their career development and progression from college to career.

Through Career Services, students have access to a wide array of career-related programs, resources, and career development support.

## Career Planning and Exploration

Individual career counseling and planning assistance is available to students as they select a major and establish their career goals. Career assessments and web-based guidance programs are also available to facilitate this process. In addition, counselors can review job search materials and assist with post-graduate program applications.

## Career Advising and Job Search Strategies

Career Advisors are available to meet one-on-one with students to discuss their job search preparation. Topics of discussion include résumé and cover letter writing, interviewing techniques, and salary negotiations. Workshops focused on career development and professionalism are offered throughout the school-year to help in the transition from student to professional.

## Employment

Resources are available to assist students find part-time, full-time, college work-study, internships and summer employment. These opportunities can be found in our online database, Jobs4Cats. Résumés, class schedules, applications, and proof of employment eligibility are required.

## Job Shadowing and Internships

Job shadowing is a short term opportunity for students to discover various career options. This experience includes spending time with professionals inside different organizations gaining firsthand knowledge about diverse career fields, and serves as a critical component of career exploration. Internship opportunities are available to refine career goals, gain practical experience, and expand students' views of the world. Often, internships serve as key experiences that lead to full-time opportunities.

## Employer Connections

Career Services provides students and alumni the opportunity to interact with numerous employers for networking and employment purposes. Bobcats have access to Jobs4Cats, Texas State's exclusive job search database, as well as many additional online resources that can be viewed at [www.careerservices.txstate.edu](http://www.careerservices.txstate.edu) (<http://www.careerservices.txstate.edu>).

Career Services hosts approximately ten career events per semester. A few examples include an "All Majors" Spring and Fall Job and Internship Fair, STEM (Science, Technology, Engineering and Math) Job and Internship Fair, Health Professions Fair, and a Mass Communication Career Fair. These events bring hundreds of employers to campus with internship, part-time, and full-time opportunities for students and alumni.

Additional networking is available through employer information sessions and panel presentations, annual externship days, and résumé referrals.

Career Services hosts a robust on-campus interviewing program. Each long semester, approximately 70 employers conduct 700+ interviews on campus for internship and full-time opportunities. All on-campus interviewing opportunities can be found in Jobs4Cats.

## Disability Services

LBJ Student Center 5-5.1

[www.ods.txstate.edu](http://www.ods.txstate.edu) (<http://www.ods.txstate.edu>)

T: 512.245.3451 F: 512.245.3452

Texas State University does not discriminate on the basis of disability in the recruitment and admission of students. Students with disabilities must meet the same admission requirements as all other prospective students. A student whose educational and/or personal goals for success have been negatively impacted due to disability-based reasons may wish to address this in the supplemental essay portion of the admission application. Students needing sign language or oral interpreting services for admissions counseling or academic advising should contact ODS one week prior to the event to ensure interpreter availability.

The Office of Disability Services (ODS) at Texas State University is dedicated to supporting the lives of students with disabilities who seek the goal of higher education. Because each individual's situation is unique, the ODS simply asks that any interested student meet with us. Documentation requirements vary by situation. The ODS staff member will discuss documentation with the student during the initial consultation. No student should delay meeting with us out of concern for not having appropriate paperwork.

Students with disabilities may be entitled to financial assistance from the Department of Assistive and Rehabilitative Services (DARS).

Texas State University has established a grievance procedure for the prompt and equitable resolution of complaints related to illegal discrimination on the basis of disability. This grievance procedure is described in UPPS No. 04.04.46 (<http://www.txstate.edu/effective/UPPS/UPPS-04-04-46.HTML>), Prohibition of Discrimination or Harassment. A copy is available in the university library, the Office of Disability Services and most other university offices. Students who have concerns or complaints should contact the ODS Director at 512.245.3451 or the university ADA Coordinator at 512.245.2278.

## Veterans Affairs

J.C. Kellam Building Room 105  
[www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>)  
 Email: [veteransaffairs@txstate.edu](mailto:veteransaffairs@txstate.edu)  
 T: 512.245.2641 F: 512.245.3271

Students attending Texas State while receiving educational assistance under one of the public laws for veterans and/or their dependents must contact the Texas State Office of Veterans Affairs to complete the required forms. Information and forms are also available on our website [www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>).

New and transfer students applying for educational benefits under the U.S. Department of Veterans Affairs for the first time must provide the Office of Veterans Affairs with a Certificate of Eligibility for the respective benefit, a photocopy of the DD214 Member 4 form, "Certificate of Release or Discharge from Active Duty," and a Change of Place of Training VA Form 22-1995 for transfer students. Reserve and National Guard members applying for Chapter 1606 benefits must provide DD 2384 form: "Notice of Basic Eligibility". Active duty military and dependents are exempt from the above DD-214 requirement. All students must follow the degree requirements in order to receive the maximum payout of their benefit. It is the student's responsibility to notify the Office of Veterans Affairs of any adds, drops, course, or program changes.

Benefit payments are made at the end of each month. Any student enrolling under any of the provisions for VA educational benefits should

bring sufficient funds to defray the initial cost of tuition, fees, and living expenses for approximately three (3) months.

As a graduate student receiving veteran benefits, you must file with the Office of Veterans Affairs an official master's degree outline, a certification deficiency plan, or other similar documentation showing the requirements needed to accomplish your objective. It is the student's responsibility to notify the Office of Veterans Affairs of any adds, drops, course, or program changes.

Dependents of Texas veterans and veterans who have exhausted VA educational benefits, should check with the Office of Veterans Affairs for information about the Hazlewood Exemption. Note: dependents students who are eligible for Hazlewood are subject to federal satisfactory academic progress (SAP) policies. For more information, go to <http://www.va.txstate.edu/benefits/hazlewood.html>. Applications and information sheets for the Hazlewood Exemption may be obtained at the Office of Veterans Affairs or at [www.va.txstate.edu](http://www.va.txstate.edu) (<http://www.va.txstate.edu>).

## International Office

Thornton International House  
 344 W. Woods Street  
[www.international.txstate.edu](http://www.international.txstate.edu) (<http://www.international.txstate.edu>)  
 T: 512.245.7966 F: 512.245.8264

The mission of the International Office is to support the comprehensive internationalization goals of Texas State University and assist the university in developing and maintaining an internationally diverse student body, faculty, and staff by:

1. Serving as immigration and cultural advisors to international students and scholars, advocating on their behalf, and providing services and information that facilitate their cultural adjustment, social integration, retention and success;
2. Assisting the university at large, international students, scholars, alumni, faculty and staff in particular, in complying with various governmental policies and regulations;
3. Contributing to the research and teaching mission of the university by assisting with employment authorization for distinguished international scholars, faculty and staff;
4. Promoting global awareness and internationalization at the university by facilitating international agreements, and by administering international programming through hosting and sponsoring international events.

### Health Insurance Requirement for Non-immigrant International Students

Texas State University has a health insurance requirement for international students that must be met each semester. All international students on non-immigrant visas are required by university policy to have health insurance coverage while enrolled in classes at Texas State. International students have two options for meeting this requirement - purchase the student health plan or request a waiver by submitting proof of health insurance coverage that is provided by a U.S. employer or paid for by the student's home country or U.S. Government.

Exchange students must purchase the student plan. There is no option to submit a waiver request.

Effective Fall 2016 the university will not add the health insurance charge to student's account and will not enroll students in the student plan.

Email notifications to the student's Texas State email account will be sent regarding this requirement each semester. The International Office has information on their website <http://www.international.txstate.edu/current/Health-insurance-.html>.

Students who do not meet this requirement by the deadline date, will have a "Hold" placed on their student account. A "Hold" will prevent you from changing classes, registering for the next semester classes, applying for graduation, and applying for OPT. These holds can jeopardize your status for not maintaining F-1 requirements of enrollment. After this deadline, students will only be able to have their "Hold" removed by showing proof of purchase and enrollment in the student health plan. An email copy of the payment receipt or email confirmation from Academic Health Plan will need to be sent to [intlhealth@txstate.edu](mailto:intlhealth@txstate.edu) in order for a hold to be removed. Waiver requests will not be allowed after the waiver deadline.

Contact the International Office at [intlhealth@txstate.edu](mailto:intlhealth@txstate.edu) for questions about this requirement.

## Round Rock Campus

[www.rrc.txstate.edu](http://www.rrc.txstate.edu) (<http://www.rrc.txstate.edu>)  
T: 512.716.4001 F: 512.716.4110

In 1998, as the lead institution, Texas State joined forces with other area universities and colleges to establish the Round Rock Higher Education Center, now known as the Round Rock Campus (RRC). In 2005, Texas State opened the Round Rock Campus on 101 acres and offers bachelor's and master's programs in Williamson County.

Texas State is addressing the educational needs of North Austin and the Central Texas area at the RRC. Located at 1555 University Boulevard in northeast Round Rock, the RRC offers small class sizes as well as supportive, engaging faculty and staff in a state-of-the-art collegiate environment. The RRC provides the upper-level course work in select bachelor's degrees, as well as several, post-baccalaureate certificates and master's degree programs. Round Rock students pay the same tuition as those attending in San Marcos but certain fees may be waived.

## Study Abroad

Thornton International House  
344 W. Woods Street  
[www.studyabroad.txstate.edu](http://www.studyabroad.txstate.edu) (<http://www.studyabroad.txstate.edu>)  
T: 512.245.1967 F: 512.245.1644

A study-abroad experience expands students' intellectual and personal development as they become immersed in other cultures. Students gain a critical self-awareness, an appreciation for a multicultural world, and a clearer understanding of their own culture. Study abroad prepares students to assume their role as responsible world citizens and to succeed professionally in today's global economy.

The Study Abroad Office offers students the opportunity to participate in a variety of study abroad programs in hundreds of locations around the world. The academic credit students earn may be applied toward a degree at Texas State. Some of these programs involve direct enrollment in an overseas institution, while other programs are led by Texas State faculty.

Through Texas State Study Abroad Programs, students can spend from one week to a full academic year in another country either by learning another language, by concentrating their studies related to a specific topic in their field of study, or by participating in an internship. Texas State Study Abroad Programs include a variety of activities that allow students to learn and experience the culture of the host country. In some of these programs students have the opportunity to live with a host family and become totally immersed in the culture of the host country for a more comprehensive learning experience.

Program locations vary from year to year. Students may learn more about these programs from current information located on the Study Abroad website.

A Study Abroad Fair is held every semester. During this event representatives of different programs provide information to students interested in studying, teaching, interning, working and/or researching abroad.

## Financial Assistance for Study Abroad Programs

Most of the financial aid that students would normally receive for studying at Texas State may be applied toward Texas State Study Abroad Programs. Additionally, there are many schools and study abroad providers that offer financial aid for attending their programs. If a student is receiving federal or state financial aid, it is recommended that the student speak with a representative of the Texas State Office of Financial Aid and Scholarships to determine the application of such aid to any study abroad program and the possible adjustment to meet the student's needs.

The Study Abroad Office also has information on scholarships that are available to students who plan to study abroad. At Texas State, students are eligible for the International Education Fee Scholarship (IEFS) as well. The IEFS is funded through the student service fee account. The scholarships are distributed in a competition open to all undergraduate and graduate Texas State students, including international students, who meet the established eligibility requirements.

## Financial Aid

Financial Aid and Scholarships  
JC Kellam Suite 240  
<http://www.financialaid.txstate.edu/> (<http://www.financialaid.txstate.edu/>)  
Email: [financialaid@txstate.edu](mailto:financialaid@txstate.edu) (FinancialAid@txstate.edu)  
T: 512.245.2315

Texas State makes every effort to help students who need assistance in paying for the cost of their education. Various financial aid programs are available. Interested students should contact Financial Aid and Scholarships or visit the office's website to view the types of assistance that are available.

## Federal and State Aid Programs

Texas State participates in both federal and state financial aid programs. Financial Aid and Scholarships offers grants, work study, student loans, and other types of aid.



## Applying for Financial Aid

To apply for financial aid, a student must complete and submit the Free Application for Federal Student Aid (FAFSA) online at <https://fafsa.ed.gov> and include the Texas State University school code – 003615.

### Deadlines

- March 15 is the priority date for filing a FAFSA for the upcoming academic year (fall and spring). If the deadline is missed, a student may still apply and receive some types of assistance such as student loans.
- March 1 is the priority deadline for filing the separate summer financial aid application prior to the upcoming summer semester. This separate summer application, which can be found online at <http://www.financialaid.txstate.edu/>, is in addition to filing the appropriate year's FAFSA.

## Satisfactory Academic Progress Requirements

Federal regulations require students to meet certain minimum academic standards in order to remain eligible for financial assistance. The requirements are that a student:

1. maintain a minimum cumulative Texas State GPA;
2. complete at least 67% of all course work; and
3. not exceed a maximum limit of attempted hours toward their degree.

Additional program-specific requirements also exist. View these SAP criteria in more detail at <http://www.financialaid.txstate.edu/> by selecting *Graduate Aid* from the dropdown menu and then *Maintain My Eligibility*.

## Alternative Loan Resources

For information on alternative loans, visit <http://www.financialaid.txstate.edu/>, select *Graduate Aid* from the dropdown menu and then *Types of Aid*.

## Official Withdrawals and Financial Aid

If a student withdraws or is expelled from the university on or prior to the 60-percent point of the semester, the student is required to repay any unearned portion of their federal Title IV aid. For more details, visit <http://www.financialaid.txstate.edu/>, select *Graduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## Unofficial Withdrawals and Financial Aid

If the student fails to earn a passing grade in at least one of their courses (i.e., all U's, all I's or a combination of all U's, W's or I's) during a semester, the student is considered to have, for purposes of federal Title IV funds, unofficially withdrawn from the university. As a result, a federal withdrawal calculation must be performed to determine the amount of Title IV funds the student must repay. For more details, visit <http://www.financialaid.txstate.edu/>, select *Graduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## Non-Attendance and Financial Aid

If the student is a Pell Grant, Iraq-Afghanistan Service Grant (IASG) or TEACH Grant recipient, federal regulations require the student to have begun attending the courses for which the student is enrolled

and receiving these grants. If on the census date roster (e.g., 12<sup>th</sup> day of each fall and spring semester) the student is reflected as not attending a course, the student is assumed (for financial aid purposes) not to have begun attendance for that course. The student's grant will then be adjusted or cancelled based on the courses the student has actually begun attending. For more details, visit <http://www.financialaid.txstate.edu/>, select *Graduate Aid* from the dropdown menu and then *Withdrawing, Non-Passing Grades and Attendance*.

## To Withdraw

The student must complete the form entitled "Texas State Official Withdrawal Request" from the University Registrar's Office. Financial aid recipients should speak with a Financial Aid and Scholarships representative before the withdrawal is processed. The withdrawal date is defined as the date on which a student first indicates his or her intent to withdraw.

## Scholarships and Fellowships

The scholarships listed below are competitively-based and are available to qualified students, who are regularly admitted, through The Graduate College. Students who are not Texas residents and receive a Texas State competitive scholarship of at least \$1,000 may be eligible to pay resident tuition. More information regarding eligibility criteria, the application procedures and deadlines for each of the scholarships and fellowships listed below is available on the following webpage: <http://www.gradcollege.txstate.edu/scholarships.html>.

Information about additional scholarships, as well as teaching and research assistantships, may be available through the academic departments.

## Texas State Celebrity Classic Scholarships

The Graduate College provides these scholarships to encourage students with intellectual, creative, and leadership promise to complete a master's or doctoral degree at Texas State University. These scholarships are available for newly admitted and continuing students.

## Graduate College Scholarships

The Graduate College provides these scholarships to encourage students with intellectual, creative, and leadership promise to complete a master's or doctoral degree at Texas State University. These scholarships are available to newly admitted and continuing students.

## Graduate College Doctoral Research Support Fellowships

The Graduate College provides Doctoral Research Support Fellowships to support graduate student research at the doctoral level. Each award of up to \$5,000 is to be used to cover expenses directly related to conducting dissertation research. There are two rounds of funding applications each year.

## Graduate College Doctoral Research Support Fellowships

The Graduate College provides Thesis Research Support Fellowships to support graduate student research at the master's level. Each award of up to \$2,000 is to be used to cover expenses directly related to



conducting thesis research. There are two rounds of funding applications each year.

## Texas State Doctoral Merit Fellowships

The Graduate College's *Texas State Doctoral Merit Fellowships* are prestigious awards intended for use in recruiting doctoral students of the highest quality to Texas State University. The *Texas State Doctoral Merit Fellowship* provides \$9,000 to new doctoral students for their first academic year of study (paid in early September, January, and June). These fellowships can be combined with graduate assistantships or departmental scholarships to create an attractive financial aid package for top-quality applicants. Doctoral/program directors are encouraged to identify and nominate eligible applicants (prospective students cannot apply directly).

## Texas State Graduate Merit Fellowships

The Graduate College's *Texas State Graduate Merit Fellowships* are prestigious awards intended for use in recruiting master's students of the highest quality to Texas State University. The *Texas State Graduate Merit Fellowship* provides \$2,500 to new master's students for their first academic year of study (paid in early September, January, and June). These fellowships can be combined with graduate assistantships or departmental scholarships to create an attractive financial aid package for top quality applicants. Graduate advisors are encouraged to identify and nominate eligible applicants (prospective students cannot apply directly).

## Admission Information

The requirements set forth on the following pages are the minimum for admission to enter a graduate program at Texas State. Meeting these requirements does not necessarily ensure acceptance into a graduate program. Many programs have established admission standards more stringent than the minimum requirements. Some programs recommend that applicants arrange a personal interview with the appropriate graduate advisor. Since admission policies and requirements vary from program to program, prospective students should check the admission requirements per program on The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html).

For most programs, an admission decision will follow within 4-6 weeks from the time all application materials have been received by The Graduate College. The number of applicants for a particular program influences the response time. Applicants are encouraged to check the status of their application online. After all required admission application documents have been received by The Graduate College, the grade point average will be calculated and the graduate advisor will make an admission recommendation. Final admission decisions are made by the dean of The Graduate College, and The Graduate College will notify the applicant of the admission decision. Applicants will receive an email notification when admitted to a program. Degree seeking students admitted to The Graduate College will also receive a letter via U.S. mail. Applicants are encouraged to check their email settings to ensure that communications are received from The Graduate College.

Applications are for specific terms. Applicants wishing to change their application to a future term will be required to submit a new application and pay the application fee. Students who have been admitted into a degree program and do not enroll for the term of acceptance are not guaranteed acceptance for future terms.

Students who are currently on probation or suspension at other colleges or universities are not eligible for admission consideration by The Graduate College. The dean of The Graduate College may refuse admission to any applicant, regardless of whether or not the applicant meets the admission requirements, if the dean of The Graduate College judges that such action is in the individual's or the University's best interest. The University reserves the right to deny admission to any prospective or former students who have criminal records including any conviction of a felony, offenses involving moral turpitude, or other offenses of a serious nature.

Students may submit an admission appeal to the graduate dean for a denial decision within three weeks of the date of the decision. The written appeal should include additional supporting documentation. Admission appeals will be answered via email within three weeks of receipt of the student's appeal.

## Application Deadlines

All required application materials should be submitted to The Graduate College no later than the following deadline dates to ensure processing for the desired term:

## U.S. Citizen Deadlines

Fall Term	June 15
Spring Term	October 15
Summer	April 15
Summer Midterm	June 1

## International Student Deadlines

No international student applications will be processed after the published deadlines.

Fall Term	June 1
Spring Term	October 1
Summer	March 15
Summer Midterm	May 1

**Deadline dates are subject to change and some programs have earlier deadlines than the ones indicated above. Prospective students are encouraged to contact their proposed major department or check our website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html) for specific deadlines.** Many programs strictly enforce the published deadlines and applications received after the deadline will not be considered for admission. For other programs, applications for domestic applicants received after the published deadline dates will be processed on a time-available basis only. The Graduate College will make every effort to process late applications for programs not enforcing the published deadline, but there are no guarantees that an applicant's file will be processed if the applicant has missed the deadline.

## Master's and Doctoral Degree-Seeking Applicants

Applicants applying for a master's or doctoral degree must at least hold a four-year baccalaureate degree from an acceptable regionally accredited institution.

## Application Requirements for U.S. Citizens

Students who want to apply for admission for a graduate-level program must submit the following documents to the The Graduate College:

1. An official admission application and non-refundable fee (\$40 for degree seeking applicants) available on ApplyTexas.
2. Non-Texas State graduates must submit one official transcript from each senior level post-secondary institution attended. Some programs also require transcripts to be submitted from community colleges.
3. Specific program requirements at: [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html).

Although the GRE is not required for all students, some programs will continue to require the GRE or the GMAT.

See the "Admission Documents" section for more information on preferred scores.

## Regular Admission Requirements

Regular degree-seeking admission, for most programs, may be granted if an applicant:

1. Has a minimum grade-point average (GPA) of 2.75<sup>1</sup> or higher on a 4.0 scale calculated on:
  - a. The last 60 semester hours of undergraduate work at a four-year college or university before the bachelor's degree, or,
  - b. The last 60 semester hours of undergraduate work at a four-year college or university before the bachelor's degree plus any graduate course work taken at an accredited college or university,
2. **AND**, meets any special requirements imposed by the graduate program for which an application is made.

<sup>1</sup> Some graduate programs have higher GPA/GRE requirements and/or specific subject GPA requirements. Applicants should refer to our website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html) for additional information.

Only courses with letter grades or numerical equivalents will be used in calculating the grade-point average. Work earned in resident credit is evaluated, and resident credit must be earned at the school granting the degree(s). Regents' external degrees will be reviewed on an individual basis by departments for admission consideration.

## Conditional Admission

The graduate advisor in the degree program that an applicant seeks to enter may recommend to the dean of The Graduate College that the individual be "conditionally" admitted even though he or she may or may not meet the minimum requirements for admission. This recommendation is based on evidence that an applicant can successfully pursue graduate study and is governed by the stated admission policies in the prospective program. Conditional admission is considered an official admission status. (Conditional admission is not available for all programs.)

If a student is conditionally admitted to a graduate degree program, the graduate advisor, with the approval of the dean of The Graduate College, will impose certain requirements. Each term the graduate advisor or department chair will review the student's conditional status. When the

student has met the conditions of his or her admission, he or she will be eligible for regular admission consideration to the program. If a student has not satisfied the conditions of admission, the graduate advisor and dean of The Graduate College will discontinue the student's enrollment.

## Graduating Seniors

If an undergraduate student at Texas State has a superior academic record and lacks 12 or fewer semester hours toward graduation, the student may apply for graduate admissions to a degree seeking program during the final term of undergraduate study. Graduate course(s) taken under this status will be applied to the student's prospective master's degree. The following requirements must be met:

1. The student must fulfill all graduate program admission requirements as stated for regular admission.
2. The graduate advisor in the student's proposed major program must submit a recommendation to the dean of The Graduate College requesting that the student be admitted into the proposed major program of study as a graduating senior.

Since concurrent registration in an undergraduate and graduate program may affect financial aid awards, students should contact a financial aid officer prior to seeking graduating senior status.

## Application Requirements for International Applicants

**An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States.** All international applicants fall under regulations of the United States Department of Homeland Security. Federal law governs University rules regarding non-U.S. citizens; hence, admission requirements for international students, including permanent residents, differ from those for United States citizens.

**In addition** to meeting the Application Requirements for U.S. citizens listed above, international applicants must submit:

1. A non-refundable international/evaluation fee of \$50. (The application fee for international students is \$40 plus the \$50 evaluation fee for a total application fee of \$90.)
2. **Two (2)** official transcripts: one translated in English and one in the applicant's native language in sealed envelopes from each college or university attended, mailed directly from the schools to The Graduate College. Texas State graduates are not required to request Texas State transcripts. The office of The Graduate College will provide them for the student. However, applicants must order transcripts for any college work not included on the Texas State transcript.
3. Official English proficiency exams scores. Refer to the "International Admission Documents" (p. 566) section of this catalog for more information regarding accepted exam types, minimum score requirements, and waiver criteria.
4. Additional documents as required by the preferred program of study. Details are available by clicking the link below.

Please note that admission requirements are subject to change. Please visit <http://www.gradcollege.txstate.edu/steps.html> for current information.

## International Students Transferring from Other Institutions in the United States

International students transferring from other institutions in the United States must plan carefully and allow adequate time for submission of application materials and evaluation of credentials because of new immigration regulations governing school transfers. Students must follow the procedures outlined below. Failure to plan carefully may require students to leave the United States and return before transferring to Texas State.

1. Students transferring to Texas State from another SEVIS (Student and Exchange Visitor Information System) institution in the United States should verify the procedures to transfer out with the appropriate Designated School Official (DSO) at their current school. A Texas State "SEVIS Transfer In Form" must be completed by the student and a DSO from the current school and forwarded to Texas State. The DSO in the international student office of the current school will assign a release date to the SEVIS record for students who have decided to attend Texas State.
2. Following the release date, the Texas State International office will be able to issue a SEVIS Form I-20. Students must contact the International Office as soon as they receive their admission letter and have submitted the "SEVIS Transfer In Form" to arrange to have their I-20 created. According to immigration regulations, students must transfer to Texas State within 60 days of completing studies or ending Optional Practice Training (OPT) at the current school.
3. Students are required to start classes at Texas State during the term indicated in the admission letter issued by the Admissions Office and within five months from the date of completion at the previous school. Students unable to begin classes at Texas State within the five-month limit are required to leave the United States and may reenter using a new SEVIS Record and I-20 within 30 days before the program start date indicated on the Texas State I-20.
4. New Texas State transfer students are required to report to the Texas State International Office no later than 15 days after the program start date listed on the I-20 and in the admission letter issued by the Admissions Office.
5. After new transfer students have enrolled in classes at Texas State, the DSO at Texas State will update the student's SEVIS record to reflect their enrollment and current address.
6. Finally, immigration regulations and procedures change frequently. Therefore, students should contact the DSO at their current school and at Texas State for any updates in transfer procedures.

If you have any questions regarding transfer procedures, please contact the Texas State International Office at [International@txstate.edu](mailto:International@txstate.edu) or call 512.245.7966.

## Non-Degree-Seeking Applicants

Applicants must hold the equivalent of a four-year baccalaureate degree from a regionally accredited institution.

If an applicant wishes to take courses but does not want to earn a graduate degree, he or she may enroll as a non-degree-seeking student. For example, an applicant may wish to take courses solely for personal enrichment or to fulfill background requirements. To enroll as a non-degree-seeking student, an applicant must:

1. Submit an admission application and the non-refundable fee to The Graduate College at: <https://www.applytexas.org/>.
2. Submit an official transcript that shows the highest degree earned.
3. Complete and sign the non-degree seeking student form that is available in The Graduate College or The Graduate College website: <http://www.gradcollege.txstate.edu/>. The applicant will also need to obtain departmental approval when applicable. This form must be completed prior to enrollment each term.

## International Non-Degree-Seeking Applicants

**An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States.** In addition to meeting the above requirements, international students seeking entry under the non-degree-seeking student admission category must:

1. Pay a \$50 non-refundable international/evaluation fee. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)
2. Submit two official transcripts indicating that a four-year baccalaureate degree equivalent was awarded: one set in the native language and the other set translated into English.
3. Submit a copy of the diploma or certificate awarded, showing the type of degree earned, the institution awarding the degree, and the date the degree was earned.
4. Submit official English proficiency exams scores. Refer to the "International Admission Documents" (p. 566) section of this catalog for more information regarding accepted exam types, minimum score requirements, and waiver criteria.
5. Submit the non-degree graduate study approval form located on our web site: [http://www.gradcollege.txstate.edu/intl\\_home/docs.html](http://www.gradcollege.txstate.edu/intl_home/docs.html).

A student under an F-1 student visa must be enrolled full-time (9 hours) in the fall and spring terms. An F-1 student does not have to enroll during the summer if the student is eligible and intends to register for the next term. A new initial F-1 student who recently gained admission into the U.S. with a program start date set to begin with the summer session must enroll full-time for that summer session.

## Visiting Student Applicants

If a student is currently pursuing a graduate degree at another institution, the student may enroll in graduate courses at Texas State with the permission of the dean of The Graduate College and the graduate advisor. **Courses taken at Texas State under the Visiting Student status may not be counted toward a graduate degree at Texas State should the student later decide to enter a degree program.**

A visiting student must:

1. Submit an admission application and non-refundable fee to The Graduate College at [https://www.applytexas.org](https://www.applytexas.org/).
2. Complete a Visiting Student ([http://www.gradcollege.txstate.edu/docs/Visiting\\_Student.pdf](http://www.gradcollege.txstate.edu/docs/Visiting_Student.pdf)) form.
  - a. Obtain approval from the institution granting the degree giving the student permission to transfer the course(s).
  - b. Obtain approval from the department(s) at Texas State offering the course(s) on the Visiting Student form.
3. Return the Visiting Student form signed and completed with all signatures for the Texas State graduate dean's approval to The

Graduate College two weeks prior to registration. This form must be completed prior to enrollment each term.

## International Visiting Student Admission

An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States. In addition to the requirements above, international students seeking entry under the visiting student admission category must:

1. Submit a letter from their primary university advisor stating that they are maintaining their immigration status. This letter is to be submitted to the Texas State's International Office.
2. Official English proficiency exams scores are required prior to admission consideration. Refer to the "International Admission Documents" (p. 566) section of this catalog for more information regarding accepted exam types, minimum score requirements, and waiver criteria.
3. Pay a \$50 non-refundable international/evaluation fee. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)

## Texas State Certificate Program Applicants

Texas State offers a number of certificate programs. Applicants who hold baccalaureate degrees from acceptable accredited institutions must apply through The Graduate College. All certificate course work must be completed within four years of initial enrollment.

Applicants must adhere to the following application procedure:

1. Submit an admission application and non-refundable fee to The Graduate College at <https://www.applytexas.org>.
2. Submit an official transcript from each senior level post-secondary institute attended.

## International Certificate Applicants

An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States. In addition to meeting the above requirements, international students seeking entry into a Texas State certificate program must:

1. Pay a \$50 non-refundable international/evaluation fee. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)
2. Submit two copies of official transcripts indicating that a baccalaureate degree was awarded: one copy translated in English and one copy in the student's native language from every college or university attended. If the applicant's transcript does not indicate the degree earned, he or she will need to submit a copy of the diploma or degree certificate, along with an English translation, showing the type of degree earned and the date the degree was earned.
3. Submit official English proficiency exams scores. Refer to the "International Admission Documents (p. 566)" section of this catalog for more information regarding accepted exam types, minimum score requirements, and waiver criteria.

A student under an F-1 student visa must be enrolled full-time (9 hours) in the fall and spring terms. An F-1 student does not have to enroll during the summer if the student is eligible and intends to register for the next

term. A new initial F-1 student who recently gained admission into the U.S. with a program start date set to begin with the summer session must enroll full time for that summer session.

## Certification or Licensure Program Applicants

### Licensure or Non-Teacher Certification

If an applicant is seeking certification or licensure rather than seeking a graduate degree, and holds at least an acceptable baccalaureate degree, or its equivalent, the applicant may gain admission as a "Post-Baccalaureate" or "Post-Graduate." Applicants must hold the equivalent of a four-year baccalaureate degree from a regionally accredited institution. As a post-baccalaureate or post-graduate student, the applicant must:

1. Submit an admission application and \$10 non-refundable fee to The Graduate College at <https://www.applytexas.org>.
2. Submit an official transcript that shows the highest college degree earned.
3. Fulfill any other departmental program admission requirements, such as GPA or entrance score requirements. Applicants should consult with the prospective program for specifics.

### International Licensure or Non-Teacher Certification Program Applicants

An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States. In addition to meeting the above requirements, international students seeking entry under the post-baccalaureate or post-graduate licensure or non-teacher certification program must:

1. Pay a \$50 non-refundable international/evaluation fee. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)
2. Submit two official transcripts indicating that a four-year baccalaureate degree equivalent was awarded: one set in the native language and the other set translated in English.
3. Submit a copy of the diploma or certificate awarded showing the type of degree earned and the date in which the degree was earned.
4. Submit official English proficiency exams scores. Refer to the "International Admission Documents (p. 566)" section of this catalog for more information regarding accepted exam types, minimum score requirements, and waiver criteria.

## Teacher Certification

The Educator Preparation Program (EPP) offers initial teacher certification in Early Childhood through Secondary grades. The program produces highly-qualified teachers who are certified to teach in Texas public, charter, and private PreK-12 schools.

Post-baccalaureate students can earn teacher certification through the following options:

1. 2nd bachelor's degree program with teacher certification (see undergraduate catalog for admittance and program requirements)
2. M.Ed. with Teacher Certification (CMED)



### 3. Post-Baccalaureate Teacher Certification Only

## Application Process

If an applicant is seeking initial teacher certification only and holds at least a baccalaureate degree or its equivalent, the individual must apply for admission through The Graduate College. Applicants should adhere to the following procedure:

1. Submit an admission application and non-refundable \$10 fee to The Graduate College at <https://www.applytexas.org>.
2. Submit an official transcript from each college or university attended.
3. After being admitted by The Graduate College, apply for a *certification plan* in the Office of Educator Preparation.
4. Go to the following website to learn more about the admission requirements and fees for the Teacher Preparation Program: <http://www.education.txstate.edu/oep/>.

## International Teacher Certification Applicants

An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States. In addition to meeting the above requirements, international students seeking post-baccalaureate or post-graduate teacher certification admittance must:

1. Pay a \$50 non-refundable international/evaluation fee. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)
2. Submit two official transcripts indicating that a baccalaureate degree equivalent was awarded: one set in the native language and one set translated in English.
3. Submit a copy of the diploma or certificate awarded showing the type of degree earned, the institution awarding the degree, and the date in which the award was earned.
4. Submit official results of the internet-based TOEFL showing a score of 78 or higher, with a minimum of 26 on the speaking section and a 19 in all other sections.

The Texas Education Agency (TEA) does not accept any other English proficiency exam scores.

A student under an F-1 student visa must be enrolled full-time (9 hours) in the fall and spring terms. A new initial F-1 student who recently gained admission into the U.S. with a program start date set to begin with the summer session must enroll full-time for that summer session.

## Admittance Requirements

The State Board for Educator Certification (SBEC) and Texas State University requirements for admittance to the EPP are as follows:

1. An accepted application to The Graduate College for CMED or Post-Baccalaureate Teacher Certification
2. Baccalaureate degree from a regionally accredited college or university
3. Minimum grade point average of 2.75 on last 60 hours
4. Fifteen (15) semester credit hours in the subject-specific content area if the applicant is seeking certification in math or science; twelve (12) semester credit hours in the subject-specific content area for all other certifications.

5. Coursework that shows ability to communicate, listen, read, write, and think critically
6. English language proficiency (bachelor's degree from U.S. institution or satisfactory scores on the TOEFL) sufficient for daily communication and teaching

Admittance requirements are subject to change in response to state law and university policy and do not adhere to a particular catalog year. Review the Office of Educator Preparation (OEP) website for current admittance and processes <http://www.education.txstate.edu/oep/>.

## Program Requirements\*

Successful teaching requires a combination of both academic and interpersonal skills. Behaviors, skills, abilities, and dispositions that are required for successful teaching as well as the candidate's general level of readiness for teaching in reK-12 classrooms are regularly assessed.

All candidates requesting placement in PreK-12 schools must complete a criminal background check. Each school district has its own background check process and requirements that must be met before the school district will approve a candidate's placement.

## Course Work Requirements

Once admitted to the program, candidates must apply for a Certification Plan and pay a fee. Each certification has different course requirements that may vary according to a candidate's academic background. Up to six (6) semester credit hours of graduate level courses may be substituted or transferred with the approval of a program advisor. Candidates seeking secondary or all-level certification may be required to repeat or enroll in undergraduate courses to meet subject-specific content requirements.

## Field Experience

A minimum of thirty (30) hours of field experience observation is required; students must complete this requirement the semester before Student Teaching either in a field block experience or as a stand-alone placement embedded in specific course work. Candidates must consult OEP and/or a program advisor before deciding how to fulfill this requirement.

## Student Teaching

Student teaching is the state-required culminating experience of the teacher certification process. This is a one-semester (six credit hours), unpaid, full-time experience in a local public school classroom. However, some candidates with advance approval from a program advisor and the OEP may choose to pursue a year-long, paid internship. All coursework from the Certification Plan must be completed prior to the student teaching semester.

## Teacher Certification Exams

The Texas Examination of Educational Standards (TEXES) is the state required teacher examination for all Texas Educators. A candidate's certification area and level will determine which TEXES tests are required. Candidates are allowed five (5) attempts for each certification test and must request approval from the OEP for each attempt. Review the OEP website <http://www.education.txstate.edu/oep/TEXES-Tests.html> for the test approval process. Candidates are eligible for test approval up to 2 years after completing the program or until the exams expire.



## Certification Recommendation

The certification officer will recommend candidates to the state for issuance of a teaching certification, after all of the following have been completed:

- Passing scores on all of the required certification exams
  - Credit for student teaching posted to the transcript
  - Bachelor's degree on file with the university
  - Completed application for certification through TEA
- \* Program requirements are subject to change in response to state law and university policy and do not adhere to a particular catalog year. Review the OEP website for current program requirements and processes.

## Holders of Valid Out-of-State Certificates

The State Board for Educator Certification (SBEC) reviews out-of-state teacher certificates. Contact the SBEC at 888.863.5880.

## Professional and Master Teacher Certification

Professional and master teacher certifications are available in the following education areas: principal, master reading teacher, master mathematics teacher, master science teacher, master technology teacher, counselor, superintendent, and reading specialist. Each certification requires a master's degree and teaching experience in Texas public schools. Refer to each individual departmental section of this catalog for specific information or contact the department.

If you are seeking a Professional or Master Teacher Certification, you must apply for admission through The Graduate College and adhere to the following procedure:

1. Submit an admission application and non-refundable \$10 fee to The Graduate College.
2. Submit an official transcript that shows your highest college degree earned.

For **master mathematics** teacher admission information and eligibility requirements, contact the Department of Mathematics at 512.245.2551.

For **elementary master mathematics** teacher admission information and eligibility requirements, contact the Department of Curriculum and Instruction at 512.245.2042.

For **reading specialist and master reading** teacher and master technology teacher admission information and eligibility requirements, contact the Department of Curriculum and Instruction at 512.245.2042.

For **master science** teacher admission information and eligibility requirements, contact the Department of Biology in the College of Science and Engineering at 512.245.2178.

For **master technology** teacher admission information and eligibility requirements, contact the Department of Curriculum and Instruction at 512.245.2042.

For **principal, superintendent\***, and **counselor** certification, contact the Department of Counseling, Leadership, Adult Education, and School

Psychology at 512.245.3083 for admission information and eligibility requirements.

- \* NOTE: In addition to university Graduate Catalog requirements, in order to be admitted to the superintendent certification program, applicants must hold a master's degree from a regionally accredited university and hold a Principal certificate or the equivalent issued by the Texas Education Agency (TEA), another state or country; or have completed the superintendent certificate application and been approved by the TEA to substitute managerial experience in lieu of a principal certificate.

## International Professional and Master Teacher Certification Applicants

An international applicant is defined as an applicant who is not a citizen or permanent resident of the United States. In addition to meeting the above requirements, international students seeking entry under the post-baccalaureate or post-graduate certification or licensure student admission category must:

1. A non-refundable international/evaluation fee of \$50. (The application fee for international students is \$10 plus the \$50 evaluation fee for a total application fee of \$60.)
2. Two (2) official transcripts indicating that a four-year baccalaureate degree equivalent was awarded: one set in the native language and the other set translated into English.
3. Submit a copy of the diploma or certificate awarded, showing the type of degree earned, the institution awarding the degree, and the date the degree was earned.
4. Submit official results of the internet-based TOEFL showing a score of 78 or higher, with a minimum of 26 on the speaking section and a 19 in all other sections.

The Texas Education Agency (TEA) does not accept any other English proficiency exam scores.

A student under an F-1 student visa must be enrolled full-time (9 hours) in the fall and spring terms. A new initial F-1 student who recently gained admission into the U.S. with a program start date set to begin with the summer session must enroll full-time for that summer session

## Texas Certified Public Manager (CPM) Program

[www.txstate.edu/cpm](http://www.txstate.edu/cpm) (<http://www.txstate.edu/cpm>)  
T: 512.245.3453 F: 512.331.7293

Texas State has been officially designated by the National Consortium of Certified Public Managers (CPM) to offer this program in Texas. The CPM Program offers a systematic training program to enhance the quality and efficiency of management in government and to improve professionalism and effectiveness of government managers. Individuals may enroll at any time during the year; programs are held approximately every two months. Admission to Texas State is not required. Courses may be completed for academic credit.

The CPM program is a nationally accredited comprehensive statewide management development program specifically for managers in federal, state, and local government and for managers in the not for profit sector. The program's primary goal is to improve the performance of public and not for profit sector managers and the organizational performance

of state, local, and federal government. It is a comprehensive course of study by which public managers can acquire and apply the best practices and theory to their management behaviors and strategies using prescribed sets of professional standards. The curriculum uses theory as the foundation and applies it to practical problems facing the participant, their agency/department, and the citizens. Those who complete the program earn a national trademark designation of CPM (Certified Public Manager<sup>®</sup>).

The Texas CPM Program is a 7 course sequence which leads to a nationally accredited public manager certification. The CPM Program is offered by Texas State University's William P. Hobby Center for Public Service.

## Reapplication Policy Procedure

Applicants wishing to change their application to a different term will be required to submit a new application and pay the non-refundable application fee. This policy also applies to students who are accepted into a degree program and fail to enroll. Students may contact The Graduate College about the possibility for a one-time deferral for up to two terms only, which is available for select programs.

Students who have been accepted into a degree program and fail to enroll for the term of acceptance are not guaranteed acceptance for future terms. Any student failing to enroll within a one-year period will be required to submit a new admission application and non-refundable application fee. Students should review additional enrollment requirements and policies which relate to their program of study.

## Applicants Seeking a Second Graduate Degree or Changing Majors

If a student wishes to pursue a second simultaneous or subsequent graduate degree or change a major, the student must submit an application for admission and comply with instructions as identified earlier under the degree-seeking admission requirements. This procedure must be completed in ample time to meet the admission deadlines. Acceptance in one program does not guarantee acceptance in another program. No courses applied toward one graduate degree may be applied toward another graduate degree.

Students on probation or suspension (p. 574) may not change programs without a recommendation and special request from the prospective department. The dean of The Graduate College will review the request when making the final decision.

## Changing Certification/Certificate/Non-Degree Status to Degree-Seeking Status

If a student has been granted admission as a post-baccalaureate or post-graduate student and wishes to apply for admission to a degree program, the student must submit an application for admission and comply with instructions as identified earlier under the degree-seeking admission requirements. This procedure must be completed in ample time to meet the admission deadlines.

After a student is regularly admitted to a graduate degree program, he or she may be permitted to utilize some of the courses taken under the post-baccalaureate or post-graduate status toward their graduate degree. At

the recommendation of the student's graduate advisor and with approval of the dean of The Graduate College, up to six hours of graduate-level courses taken under the post-baccalaureate or post-graduate status with a grade of "B" or better may be petitioned for degree credit.

## Applicants Seeking a Second Baccalaureate Degree

Students seeking a second baccalaureate degree may apply online at <http://www.applytexas.org> or by contacting the Office of Undergraduate Admissions.

After a student obtains a second baccalaureate degree and if the student wishes to apply for admission to The Graduate College, the grade-point average will be calculated on the applicant's last 60 undergraduate semester hours, including those on the second baccalaureate degree. This is the only circumstance in which undergraduate credit hours taken beyond the initial baccalaureate degree are used in admission evaluation. Additionally, if a student has any previously completed graduate or professional work, these hours may also be used in conjunction with the applicant's last 60 undergraduate semester hours to arrive at the admission GPA.

## Texas State Intensive English Language Program (TSIE)

Thornton International House  
344 W. Woods Street  
[www.txstate.edu/ie](http://www.txstate.edu/ie) (<http://www.txstate.edu/ie>)  
T: 512.245.7810 F: 512.245.3752

TSIE is a non-credit university intensive English-as-a-Second-Language (ESL) program for students who:

1. want to improve their command of the English language before entering college or university-level programs of study;
2. are participating in the TSIE Bridge Programs; or
3. would like to polish their English language abilities for academic readiness, test preparation, self-improvement and/or cultural integration.

Beginning, intermediate, and advanced classes, emphasizing academic reading, writing, grammar, and oral skills, are offered during the fall, spring, and summer sessions.

## Graduate Student Advisement

Professional academic counseling for students is handled through the student's major department (or minor department if applicable) after the student has received formal acceptance to The Graduate College. This method of advisement ensures that students will receive sound academic counseling from faculty in their chosen field of study.

## Admission Documents

All admission materials must be submitted to The Graduate College. Materials submitted become the property of the University and cannot be released, except in accordance with the Federal Family Education Rights and Privacy Act of the state Public Information Act. Admission materials submitted without an ApplyTexas application will not be retained.

## General Admission Documents

### Application for Admission

An application for admission to The Graduate College must be submitted online through ApplyTexas. Applications are for specific terms. Applicants wishing to change their application to a different term or program will be required to submit a new application and pay the non-refundable application fee. This policy also applies to students who are accepted into a degree program and fail to enroll. Students may contact The Graduate College about the possibility of a one-time deferral for up to two terms only, which is available for some programs. Students who have been admitted into a degree program and fail to enroll for the term of acceptance are not guaranteed acceptance for future terms.

### Application Fee

A non-refundable application fee of \$40 is required for all degree-seeking students. International students and any applicant with foreign credentials that must be evaluated, will need to pay an additional non-refundable international/evaluation fee of \$50. A \$10 non-refundable application fee is required of individuals seeking certification, certificate, non-degree, or visiting student status. An additional \$25 non-refundable application fee is required for applicants to the doctor of physical therapy program. No application will be processed until the necessary fees are paid.

### Official Transcripts

An applicant for a graduate degree program at Texas State must have one official transcript from each senior level post-secondary institute attended sent to The Graduate College. Transcripts from community colleges may be required for some programs. Check for specific program requirements at <http://www.gradcollege.txstate.edu/steps.html>.

Applicants applying for a master's or doctoral degree must at least hold a four-year baccalaureate degree from an acceptable regionally accredited institution.

Transcripts must be mailed directly from the university or college attended or submitted in a sealed university envelope with the university registrar's signature on the back of the envelope. The transcript must reflect all college work attempted and any degree(s) conferred. Scanned or faxed copies of transcripts will not be considered official. Please check with the Texas college or university attended to determine if the transcripts can be submitted electronically to Texas State. Texas State transcripts will be supplied.

### Departmental Documents

Additional admission document requirements vary from program to program. Please check our website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html) for specific program requirements. Some required documents may be uploaded at <https://tim.txstate.edu/gadocumentupload>.

### Graduate Record Examination (GRE)

The GRE is required to be on file in The Graduate College prior to admission consideration for some programs. The GRE may be required by other programs if the GPA is below the minimum required. Check for specific program requirements at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html).

Applicants who are required to take the GRE for admission consideration should take the general portion (verbal and quantitative sections) of the GRE. The writing section is also required for some programs. Subject examinations are not accepted.

The GRE is valid for five years after the exam date. GRE score reports that bear the designation of "applicant's copy" or "institutional examinations" are not considered official scores for admission purposes.

GRE information bulletins and application forms may be obtained from the Educational Testing Service, P.O. Box 6000, Princeton, New Jersey 08541-6000, U.S.A.; the University Testing Center at Texas State; The Graduate College; or <http://www.ets.org/gre>. Please allow adequate time for the examination results to reach the University prior to the admission application deadline. The college code for Texas State is 006667.

### Graduate Management Admission Test (GMAT)

Applicants for the graduate business programs and the Master of Accountancy degree programs are required to take the GMAT, though the GRE may be substituted for the GMAT. The official results of the GMAT must be on file in The Graduate College before the application for admission will be considered.

The GMAT is valid for five years after the exam date. GMAT score reports that bear the designation of "applicant's copy" are not considered official scores for admission purposes.

GMAT information bulletins and test application forms may be obtained from the Educational Testing Service, P.O. Box 6103, Princeton, New Jersey 08541-6103, U.S.A.; the University Testing Center at Texas State; or [www.mba.com](http://www.mba.com) (<http://www.mba.com>). The college code for Texas State is 006667.

### Documentation of Meningitis Immunization

Universities in Texas are required by state law to collect proof of bacterial meningitis vaccination, or proof of an exemption, for incoming students under the age of 22. Magnus Health Student Medical Records (SMR) collects, reviews, and confirms our students' bacterial meningitis vaccination information. For more information on this requirement, please visit <http://www.healthcenter.txstate.edu/meningitis>. Contact Magnus Health SMR customer service at 877.461.4831 or [service@magnushealthportal.com](mailto:service@magnushealthportal.com).

### International Admission Documents

In addition to all general admission requirements, applicants with international credentials (including any study abroad or exchange course work) or English proficiency exam scores, may be required to submit the following requirements for admission consideration.

### Test of English as a Foreign Language (TOEFL)/International English Language Testing System (IELTS)

English proficiency exam scores through the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or International English Language Testing System (IELTS) (<http://www.ielts.org>) are required of all applicants if English is not their native language or if

they are not eligible for an automatic TOEFL/IELTS waiver ([http://www.gradcollege.txstate.edu/intl\\_home/lang.html](http://www.gradcollege.txstate.edu/intl_home/lang.html)) through The Graduate College.

Fluency in English is expected of all accepted students, specifically in the areas of listening, reading, speaking, and writing; therefore, applicants must submit a TOEFL internet-based test (iBT) score of at least 78 overall or an IELTS (academic) test score of at least 6.5 overall with 6.0 in each individual module scores. Only students currently enrolled in the Texas State Intensive English (TSIE) Bridge Program may submit a TOEFL paper-based test score of at least 550 for regular admission. Please note that some programs may require a higher overall score or 4 out of 4 minimum individual iBT section scores in order to be considered for regular admission. Additionally, some programs may require that applicants submit scores for one specific type of test.

In conjunction with the Texas State Intensive English (TSIE) Bridge Program, certain programs may allow English-based conditional admission. "Bridge Admission" requires a TOEFL internet-based overall score 59-77 or an IELTS (academic) overall score of 5.5-6.0 with minimum individual module scores of at least 5.5. Please note that some programs may require 4 out of 4 minimum individual iBT section scores in order to be considered for English-based conditional admission.

All TOEFL or IELTS scores submitted for admission consideration must be less than two years old as both Educational Testing Services (ETS) and International English Language Testing System (IELTS) will not maintain or release official score records beyond this time. All TOEFL or IELTS scores must be submitted to The Graduate College by ETS or IELTS directly – score reports bearing the designation of "applicant copy" or "institutional scores" will not be considered official for admission purposes.

The TOEFL and IELTS are administered at various centers in the United States and abroad at least six times each year. Information, practice materials, and registration for these tests are found through their respective organization's websites: <http://www.ets.org/toefl> for TOEFL and <http://www.ielts.org/> for IELTS.

## International Evaluation Fee

If an application requires the review of any non-US credentials (including any courses taken through a study abroad or exchange program) or English proficiency exam scores, the applicant must submit a non-refundable international evaluation fee of \$50 in addition to the \$40 application with the ApplyTexas application. No application will be considered until the necessary fees have been paid.

## Immigration Documents

All immigration-related documents will be collected by the International Office. Please visit <http://www.international.txstate.edu/> for more information or contact the office directly at 512-245-7966 or [international@txstate.edu](mailto:international@txstate.edu).

## Registration and Course Credit

Since applications are for specific terms, an applicant should notify The Graduate College as soon as possible if he or she will not be enrolling in the term of admission.

Texas State utilizes an online registration system referred to as Texas State Self-Service. Texas State Self-Service can be accessed through CatsWeb (<http://www.catsweb.txstate.edu>). It provides step-

by-step instructions on how to register online and information on how to search for courses. For more information, students should access the Office of the University Registrar's website at <http://www.registrar.txstate.edu>. Registration in The Graduate College beyond the first term depends on satisfactory progress in fulfilling any admission conditions that may have been imposed and making satisfactory academic progress.

## Registration Termination

The dean of The Graduate College may terminate the registration of any student who fails to comply with Graduate College and/or other appropriate university regulations.

## Course Load and Overloads

### Course Load

At the graduate level, the full-time course load during the fall, spring, and summer is nine semester hours. Seven hours is considered  $\frac{3}{4}$  time and five hours is half-time. Students may take up to fifteen hours during the fall and spring terms and up to twelve hours during the summer.

An international student on an F-1 visa must register as a full-time student each fall and spring term. As a graduate student, an international student must carry a minimum of nine semester credit hours, as required by immigration regulations, to be considered full-time.

The department or operating unit will determine the permissible course load of employees of the university under their supervision. Graduate assistants should refer to the "Salaried Graduate Student Employment Procedures" (<http://www.txstate.edu/effective/UPPS/upps-07-07-06.html>) outlined in UPPS 07.07.06.

A student receiving VA benefits must check with the Veterans Affairs Office for enrollment requirements at 512.245.2641.

### Overloads

Course loads up to eighteen hours require written approval. Only the dean of The Graduate College may authorize an overload. To request an overload, you must make a request to your major department advisor to submit a written request to the dean of The Graduate College at least three days before registration for the dean's review and approval.

### Credit Hour

For purposes of this catalog and in accord with federal regulations regarding the definition and assignment of credit hours under section 600.0 and 600.24(f) of the Higher Education Opportunity Act, a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

- not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time;
- at least an equivalent amount of work as outlined in the item above for other academic activities as established by the institution including laboratory work, internships, practicum, studio work, and other academic work leading to the award of credit hours.

A semester credit hour is defined by THECB as a unit of measure of instruction consisting of 60 minutes, of which 50 minutes must be direct



instruction over a 15-week period in a semester system. Credit hours must be presented in whole numbers. Academic administrative units are responsible for ensuring that credit hours are awarded only for work that meets this requirement. Students should expect to invest a minimum of two hours of additional work for each hour of classroom or faculty instruction per week.

## Adds and Drops/Schedule Changes

Information regarding schedule changes can be found on the Office of the University Registrar's website at <http://www.registrar.txstate.edu/>. Schedule changes and withdrawal dates are published each term in the official university calendar that can be found at the following website: <http://www.registrar.txstate.edu/persistent-links/academic-calendar.html>.

For assistance, contact the Office of the University Registrar.

## Auditing a Course

To audit a course, a student must be admitted to The Graduate College. After the student has registered on CatsWeb, he or she must contact the Office of the University Registrar in person by the 4<sup>th</sup> class day in the summer or by the 12<sup>th</sup> class day in the fall or spring. Check the University Academic Calendar for the exact date. A student will pay the same fees as if the course were taken for credit and the course will be entered on his or her transcript record, but the student will not receive credit for the course.

Senior citizens, 65 or older, may audit courses without payment of a fee if space is available. Registration is permitted just prior to the start of the term, with reductions made by the tuition adjustment clerk, Student Business Services (JC Kellam Administration Building 188), after registering.

## Course Numbers

Texas State follows a four-digit numbering system. The first digit indicates the level of the course: 1-freshman, 2-sophomore, 3-junior, 4-senior, 5- and 6-graduate and post-graduate, and 7-doctoral. Courses numbered 5000-6000 are open to all graduate students. Courses numbered 7000 are designed for doctoral students but may be open to other graduate students. The second digit of the course number indicates the semester credit hours the course carries. For example, a course numbered 5300 would carry three semester hours of graduate-level credit. The last two digits usually indicate the location of the course in the department's curriculum. A letter (A, B, C, etc.) or symbol (#, @, etc.) attached to a course number indicates an area of concentration within the course. Numbers in parentheses (3-4) following a course title indicate the clock hours per week spent in lecture and laboratory, respectively.

## Dropping a Class

Dropping a class is an official action whereby a student drops one or more courses, yet remains enrolled in at least one hour. Refer to the registration instructions at <http://www.registrar.txstate.edu> for details on dropping a class.

1. The drop deadline is the first 60% of the term. Please refer to the academic calendar on the University Registrar's website for the most current dates.
2. A "W" grade will be assigned automatically when a student drops one or more classes by the automatic "W" deadline, the first 60% of the term.

## Withdrawal

Withdrawing from the university (dropping all classes) is an official action whereby a student informs the Office of the University Registrar, who in turn informs the instructor(s) of record, that the student will cease attending all classes in which he or she is enrolled.

1. The deadline to receive an automatic "W" is the first 60% of the term. Please refer to the academic calendar on the registrar's website for the most current dates.
2. After the automatic "W" period, faculty assign grades to students who officially withdraw from the university. Faculty assign a "W" grade only to those students who have a passing average at the time the withdrawal action is officially completed. Otherwise, faculty assigns a "U" grade.
3. Please refer to the academic calendar on the University Registrar's website for the withdrawal deadline.

The student must contact the Office of the University Registrar in person, by letter, by email, or by fax to withdraw officially from the university. Visit the registrar's office website at <http://www.registrar.txstate.edu/> or contact the registrar's office at 512.245.2367 for the proper procedures. Students living in university residence halls must also contact the Department of Housing and Residential Life in person, by letter, or by fax.

## Course Credit

### Course Credit and Level

A student must be in attendance in class, fulfill the course requirements, and be evaluated by the course instructor in order to receive course credit for that class. The attendance requirement to receive class credit does not affect enrollment for thesis or independent study.

A student must be enrolled in the course during the term or summer session in which he or she receives credit for that class. A student may not enroll in a class to:

1. Receive credit for course work performed in a preceding term or summer session.
2. Receive credit for work performed at another college or university.

### Course Level

All courses required for the graduate degrees offered at Texas State are at the 5000-level or above. Courses required for the doctoral level are at the 7000-level.

## Repeating Courses

A student may repeat a course but cannot receive credit for the course more than once unless the course description in the catalog specifically provides that the course may be repeated for credit. When a course is taken more than once, the second grade (first repeat) and all subsequent grades (repeats) are included in computing the Texas State hours attempted, grade points earned, and GPA. "W", "PR", and "I" grades are excluded. If a course taken at Texas State University is to be repeated, it must be retaken at Texas State University.

## Post-Graduate Credit

After a student is regularly admitted to a graduate degree program, they may be permitted to utilize some of the courses taken as a post-graduate, teacher certification, non-degree, or certificate student toward their graduate degree. At the recommendation of the student's graduate



advisor and with approval of the dean of The Graduate College, up to six hours of graduate-level courses taken under the post-graduate status with a grade of "B" or better may be petitioned for degree credit.

## Transfer Credit

After a student is regularly admitted to a graduate degree program, they may be permitted to utilize some graduate level courses taken at another institution toward their graduate degree. Acceptable transfer credit may be applied to a graduate degree as follows:

- up to 6 hours for degrees with 30-35 credit hours,
- up to 9 hours for degrees with 36-41 credit hours, and
- up to 12 hours for degrees with 42+ hours.

Exceptions to the standard maximums are the mathematics education doctoral program and the communication design master's program. The mathematics education doctoral program requires completion of 78 semester hours of course work, of which 24 credit hours of transfer course work may be approved by the dean of The Graduate College upon recommendation from the Ph.D. program director. The master's in communication design is a 60 semester hour degree program, in which a maximum of 27 semester credit hours of transfer credit may be approved by the dean of The Graduate College upon recommendation from the program's graduate advisor. Transfer credit will be accepted and applied:

1. The credit was earned in graduate courses completed in residence at a regionally accredited institution.
2. The courses are at the appropriate level and applicable to the student's degree program at Texas State.
3. Courses have not been, and will not be, used for credit toward another degree.
4. If the credits were earned **prior** to the student's admission to his or her program of study within The Graduate College, the student must have his or her departmental graduate advisor submit a written request to the dean of The Graduate College asking for acceptance of the transfer work toward the student's Texas State degree.
5. If the credits are to be earned **after** the student is admitted to The Graduate College or enrolled in a graduate degree, the student must initiate a request for a letter of good standing well in advance of the time of anticipated enrollment at another university. Transfer credit **cannot** be permitted if the student fails to obtain a letter of good standing from the dean of The Graduate College prior to enrollment in the course(s) to be transferred. In order to obtain a letter of good standing, the student will need to:
  - a. Receive permission from the departmental graduate advisor to take a course elsewhere.
  - b. Have the graduate advisor submit a written request to the dean of The Graduate College so that the dean can issue an official letter of good standing. The request from the advisor should identify the course(s) by name and number and should state what term(s) and where the course(s) will be taken. If the dean of The Graduate College approves the request, a letter of good standing will be sent by the dean of The Graduate College to the university where the student will enroll.
  - c. Have an official transcript of the work forwarded to The Graduate College at Texas State as soon as the grade(s) posts to the transcript at the other institution.

**Transfer work will be accepted only** if it bears a letter grade of "B" or higher, or a numerical equivalent. A grade of "Credit," "Pass,"

"Satisfactory," etc., is unacceptable. Transfer work will not be accepted for graduate degree credit from another institution if such courses are designated as non-degree, background, preparatory, etc. No credit will be awarded until an official transcript showing the course work to be transferred is on file in The Graduate College. The student may also be requested to provide a catalog from his or her prior school that gives course descriptions for any transfer work requested. Students admitted on "Conditional Admission" or students on "Probation/Suspension" will not receive credit for transfer work taken under the aforementioned status.

## Transcripts for Transfer Work

Texas State transcripts will separate transfer course work from Texas State course work. On the transcript, transfer work will be listed first, followed by Texas State course work. In each section, course work will be listed chronologically. The transcript will show the number of hours transferred, Texas State hours attempted, Texas State hours passed, Texas State grade points, and Texas State GPA.

Courses taken at other institutions will not be included in the GPA at Texas State. The Texas State GPA will be the only GPA calculated toward graduation.

## Background Course Work

Courses taken at another institution to fulfill background requirements at Texas State will be accepted only if such courses are at the same level as those specified on the official degree audit.

## Distance and Extended Learning Continuing Education Study

With a wide range of learning opportunities, the Office of Continuing Education offers programs that extend the resources of Texas State and contribute to the professional and economic development of Texas. Enrollment is open to all interested persons on a non-credit hour basis; therefore, the courses are not offered through The Graduate College and do not apply toward a graduate degree, nor are they considered for regular admission. For information about continuing education programs go to <http://www.txstate.edu/continuinged/>.

## Extended and Distance Learning

The university offers many courses and programs via distance learning and at the San Marcos campus and at extended hours on evenings and weekends.

All graduate courses and programs offered to distance learners carry the same course number, title, and description as those offered at the San Marcos campus.

For F-1 international students, no more than the equivalent of one class or three credits per term may be counted toward the full course of study requirement if the class is taken online or through distance education and does not require the student's physical attendance for classes, examination, or other purposes integral to completion of the class.

Courses offered at a distance are identified each term in the Texas State Schedule of Classes and on CatsWeb. For more information on extended and distance learning at Texas State, visit <http://www.distancelearning.txstate.edu>.

## Correspondence Study

When factors such as family, jobs, business travel, etc. compete for time, and students find that it is difficult to schedule their on-campus classes, correspondence study offers a solution. Courses are offered through various disciplines including art, humanities, health-related fields, mathematics, psychology, modern languages and sociology. Courses are revised frequently, so students are encouraged to contact the Office of Distance and Extended Learning for current course offerings or visit the office's website.

The office offers graduate and undergraduate courses. It is up to the individual academic departments/graduate schools at a student's university to determine if these courses may be applied to a graduate degree. Therefore, any student who wishes to apply a graduate-level course towards a degree should determine prior to enrolling if that course will be accepted. Students may enroll in courses at any time of the year and take up to nine months to complete them. Instruction for most courses is online, and all courses offer online assignment submission.

Enrollment in a correspondence course does not constitute acceptance to the university nor to any of its graduate programs. **Correspondence course work cannot be used toward a doctoral degree at Texas State.** For more information on correspondence studies at Texas State and a current list of course offerings, visit <http://www.correspondence.txstate.edu/>.

## Extension Courses

Texas State's Office of Distance and Extended Learning also serves those persons who are unable to come to campus and who wish to earn degree credit or to pursue in-service training, as well as those who wish to enroll in college courses not normally offered through the academic departments/schools. Extension courses are offered on campus and at various off-campus locations. The times and locations for such courses depend on student need, faculty availability, and demand. Extension courses are from the regular Texas State curriculum. Registration for an extension class is completed through the Office of Distance and Extended Learning and does not constitute acceptance as a regular student at Texas State.

### Degree Credit for Extension Course Work

The department chair and the dean of The Graduate College must approve extension work for it to be credited toward a graduate degree. Students must meet the admission requirements as identified under the "Master's and Doctoral Degree-Seeking Applicants" section and be accepted in a degree program before extension work can receive degree credit. **Extension course work cannot be used toward a doctoral degree at Texas State.**

A maximum of 12 semester hours of graduate credit may be earned in extension courses offered by Texas State.

### Extension Transfer Credit

Up to three semester hours of the total allowable six hours of transfer credit for a degree may be earned through extension courses from another accredited institution. Students admitted on "Conditional Admission" or students on "Probation/Suspension" will not receive credit for transfer work taken under the aforementioned status.

For more information on Extension Studies at Texas State, visit our website at <http://www.extension.txstate.edu/>.

## Academic and Grading Policies

### Class Attendance

It is the policy of the university to require regular, punctual attendance at all classes. However, the university recognizes that attendance policies may vary from department to department and in course to course. The university has no mandatory class attendance requirements except:

1. Each faculty member will inform students of the course attendance policy at the initial class meeting.
2. Students are responsible for understanding the attendance policy for each course in which they enroll and for meeting the attendance requirements.

### Religious Holy Days

"Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code. In accordance with Texas Education Code Section 51.911, Texas State will allow a student who is absent from classes for the observance of a religious holy day to take an examination or complete an assignment scheduled for that absent day within a reasonable time after the absence if the student notifies the instructor of each class that they would be absent for a religious holy day. The Education Code includes excused absences for travel to and from the religious holy day observance. The student may make up class assignments or examinations without penalty within a reasonable time after the absence. Students may obtain notification forms from the Dean of Students' Office. The student should personally deliver completed forms to the instructor for each class. The instructor will sign and date the form, thus acknowledging notification. If the student cannot personally deliver the form to an instructor, the student should mail the form to the instructor by certified mail, return receipt requested. A student who is excused under this section shall not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination within a reasonable time. Each instructor may establish additional procedures to accommodate the needs of students who are absent from classes to observe a religious holy day. These procedures must not conflict with the state law.

Coordinating Board rules now provide for an appeal of a disagreement between the student and a faculty member over an absence related to a religious holy day. If a student and an instructor disagree about the nature of the absence being for the observance of a religious holy day, or if there is a disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the president or the president's designee. The president or the president's designee must take into account the legislative intent of Education Code Section 51.911. The student and instructor shall abide by the decision of the president or the president's designee. The academic dean of each college serves as the president's designee to hear requests for decisions on these matters from either the faculty member or the student. Any questions concerning this policy should be directed to the Office of the Dean of Students.

## Course Grades

### Grades

Texas State grades are assigned as follows "A," excellent; "B," good; "C," passing (**not at the doctoral level**); "D," passing (**not at the graduate level**); "F," failure; "I," incomplete; "U," unearned "F"; and "W," withdrawn

passing. A grade of "PR," in most instances may be temporary and non-punitive, but may be assigned in selected courses where the required clock hours needed to complete requirements extend beyond the regular term or summer session. A grade of "CR" is assessed when credit only is given for a course, as in the case of the thesis course, after completion of the thesis.

### **Incomplete Grade**

If any course work is incomplete during any term, the work must be completed by an indicated deadline arranged between the student and the course instructor. The "I" grade may be assigned when, due to unusual circumstances beyond the student's control, a significant portion of a course, such as a term paper or final examination, has not been completed. An "I" grade from Texas State will not count as hours completed until another grade is substituted for the "I." If the course work has not been completed in twelve months' time, the grade will automatically change to "F."

### **Withdrawal Grade**

A "W" grade is assigned only if a student drops a course by the published deadline. See also "Registration and Course Credit" section under "Withdrawal".

### **Change of Grade**

An individual course grade may be changed when the involved faculty member certifies to the Office of the University Registrar that an error was made in computing the original grade. The grade change must be approved by the department chair/school director and the appropriate college dean. Students who wish to protest a grade earned in a course should first discuss the grade with the instructor. If no resolution is reached, the student may appeal the grade to the department chair. If no satisfactory conclusion can be reached at this level, the student may appeal to the college dean in which the course is offered, whose decision is final. In accordance with Texas State's records retention policies, a student appeal for a change of grade must be filed no later than two years after the grade is issued.

### **Grade Point Average (Four-Point System)**

The GPA is the number of grade points earned divided by the number of semester hours attempted. Term grade symbols have the following values:

- A = 4 points
- B = 3 points
- C = 2 points
- D = 1 point
- U/F = 0 points

Grades are not calculated for "I," "CR," "PR," or "W."

## **Doctoral Leave of Absence Policy**

### **To Whom the Policy Applies**

Doctoral students who have achieved candidacy, and thus have a continuous enrollment requirement during long (fall and spring) semesters, may take an approved Leave of Absence during graduate study under certain conditions and for certain periods of time. A Leave of Absence must be approved by both the student's graduate advisor

and the dean of The Graduate College. A Leave of Absence cannot be approved retroactively or for a semester that has already begun.

Pre-candidacy doctoral students and master's students are not required to complete Leave of Absence paperwork if stopping out; however, it is recommended that they do so as the process provides a vehicle for more easily resuming their studies.

### **Purpose and Limitations**

Students may need to discontinue their studies ("stop out") for a short period of time for reasons of personal or family exigency. Students who do not receive an approved Leave of Absence may be denied readmission to their program when attempting to reenter the program. Students who do not receive an approved Leave of Absence but are still readmitted may experience delays in registration and/or face additional fees. An approved Leave of Absence preserves the student's status in their degree program. Leaves of Absence may not be granted for the student in order to avoid exceeding the state doctoral hour limit, to avoid paying tuition, to avoid the regulation on continuous enrollment of doctoral students, or to avoid the full-time requirement for international students.

### **Access to University Resources During a Leave of Absence**

Because the Leave of Absence is intended to be taken for reasons of personal or other exigency as opposed to degree progress, there is no support — whether faculty or university resources (library, office space, etc.) — provided to the student during the Leave of Absence period; students must register if making use of university resources or faculty time. A Leave of Absence does not extend a student's time-to-degree requirement. Discontinuing students for a semester or more, with or without a Leave of Absence, may affect the student's eligibility for other university areas beyond The Graduate College's domain (such as financial aid, health insurance, etc.), and the student is responsible for consulting with those offices about the impact of not maintaining enrollment in the degree program.

### **Length Limitations of a Leave of Absence**

A Leave of Absence can be granted for no more than three long semesters (fall and spring) total. The exact length of the Leave must be made explicit in the Leave of Absence request. Rationale for the Leave must be documented by the applicant.

### **Process for Requesting a Leave of Absence**

Doctoral students who have advanced to candidacy must fill out the Doctoral Candidate Leave of Absence form, found here <http://www.gradcollege.txstate.edu/docs/dlvofabs.pdf>, which will require justification from the appropriate graduate advisor. The form must be submitted to The Graduate College for the dean's review and approval.

### **Process for Returning to the University after an Approved Leave of Absence**

Upon resuming graduate studies after a semester of non-enrollment, all students must submit reentry paperwork, regardless of whether or not an approved Leave of Absence form is on file. If the student is returning after an absence of less than one calendar year, only the Update Application form is required. If the student is returning to studies after an absence

of over a calendar year, it is necessary to reapply to the program through ApplyTexas.

Depending on the length of time the student is away from the university, a new graduate catalog and/or program degree requirements may be in effect. With an approved Leave of Absence, the student may opt to complete their degree under the previous degree requirements or the new requirements with the approval of the graduate advisor; if the student was away from the university for a semester or more without an approved Leave of Absence on file, the student must complete their degree under the new degree requirements.

## Honor Code

As members of a community dedicated to learning, inquiry, and creation, the students, faculty, and administration of our university live by the principles in this Honor Code. These principles require all members of this community to be conscientious, respectful, and honest.

### We are Conscientious

We complete our work on time and make every effort to do it right. We come to class and meetings prepared and are willing to demonstrate it. We hold ourselves to doing what is required, embrace rigor, and shun mediocrity, special requests, and excuses.

### We are Respectful

We act civilly toward one another and we cooperate with each other. We will strive to create an environment in which people respect and listen to one another, speaking when appropriate, and permitting other people to participate and express their views.

### We are Honest

We do our own work and are honest with one another in all matters. We understand how various acts of dishonesty, like plagiarizing, falsifying data, and giving or receiving assistance to which one is not entitled, conflict as much with academic achievement as with the values of honesty and integrity.

### The Pledge for Students

Students at our university recognize that, to ensure honest conduct, more is needed than an expectation of academic honesty, and we therefore adopt the practice of affixing the following pledge of honesty to the work we submit for evaluation:

"I pledge to uphold the principles of honesty and responsibility at our university."

### The Pledge for Faculty and Administration

Faculty at our university recognize that the students have rights when accused of academic dishonesty and will inform the accused of their rights of appeal laid out in the student handbook and inform them of the process that will take place:

"I recognize students' rights and pledge to uphold the principles of honesty and responsibility at our university."

### Addressing Acts of Dishonesty

Students accused of dishonest conduct may have their cases heard by the faculty member. The student may also appeal the faculty member's decision to the Honor Code Council. Students and faculty

will have the option of having an advocate present to insure their rights. Possible actions that may be taken range from exoneration to expulsion. Information about the Honor Code Council and its policies and procedures may be found at [www.txstate.edu/honorcodecouncil](http://www.txstate.edu/honorcodecouncil) (<http://www.txstate.edu/honorcodecouncil>).

## Academic Information for Graduate Assistants (GA's)

A prospective graduate/doctoral assistant must be enrolled as a regular, degree-seeking student in The Graduate College. Graduate/doctoral assistants may be employed as teaching assistants, instructional assistants, research assistants, or graduate assistants in either an exempt or non-exempt status from the Fair Labor Standards Act (FLSA). The information below can also be found in UPPS 07.07.06 by clicking on the link here: <http://www.txstate.edu/effective/UPPS/upps-07-07-06.html>.

### Types of Graduate Assistantships

- **Graduate Teaching Assistants and Doctoral Teaching Assistants (GTA/DTA)** are employed by an academic department, paid from faculty salaries and reported as the "teacher of record" for an organized undergraduate class. Graduate teaching assistants and doctoral teaching assistants receive a faculty contract for a semester or the academic year, and are paid on a monthly basis, and are exempt from The Fair Labor Standards Act (FLSA) under the learned professional exemption.
- **Graduate Instructional Assistants and Doctoral Instructional Assistants (GIA/DIA)** are employed by an academic department, paid from faculty salaries, but are not reported as the "teacher of record." Graduate instructional assistants and doctoral instructional assistants are responsible for a specific group of students (typically undergraduate students) and assign some portion of these same students' grades. If graduate students are assigned as instructional assistants in graduate courses, they cannot grade other students' work nor have access to their grades. In rare circumstances, the dean of The Graduate College will allow an exception for doctoral instructional assistants assigned to master's level classes, provided there is no conflict of interest. The academic department may pay graduate instructional assistants' salaries for those assisting in the operation of a lab or an activity or recitation group from course fees collected for this purpose. Graduate instructional assistants and doctoral instructional assistants are appointed for a semester or the academic year, paid on a monthly basis, and are exempt from the FLSA under the learned professional exemption.
- **Graduate Research Assistants and Doctoral Research Assistants (GRA/DRA)** are employed by a department or university office and may receive pay from grant or university funds. Chapter 10 of the US Department of Labor's Field Operation Handbook defines research assistants as students "engaged in research in the course of obtaining an advanced degree and the research is performed under the supervision of a member of the faculty in a research environment provided by the institution under a grant or contract." If employed on a grant, the work performed must directly relate to the objectives of the grant. Graduate research assistants and doctoral research assistants can be appointed for a semester, the academic year, or the duration of a research project or any portion thereof, and paid on a monthly basis. They are exempt from the FLSA under the graduate research exemption, as provided in the June 28, 1994 DOL opinion letter #1263.



- **Graduate Assistants and Doctoral Assistants (GA/DA)** are employed by a department or university office and may receive pay from grant or university funds. Responsibilities may include research (not under the supervision of a faculty member), technical assistance, and institutional support. To avoid conflicts of interests, graduate and doctoral assistants cannot have access to records of graduate students of their degree granting department. Graduate assistants and doctoral assistants who have access to records must be Family Educational Rights and Privacy Act (FERPA) trained and sign a confidentiality agreement. Within this role, there are two types of categories:
  - **Exempt** - A graduate/doctoral assistant is considered exempt if the job is not subject to the minimum wage and overtime provisions of the Fair Labor Standards Act. The Human Resource Office is responsible for determining the exemption/non-exemption status of a position. These assistants are required to record working times on an exception basis and are not eligible for paid leave, including holidays.
  - **Non-Exempt** - A graduate/doctoral assistant is non-exempt if the job is subject to the minimum wage and overtime provisions of the Fair Labor Standards Act. The Human Resource Office is responsible for determining whether students need to record working times on an exception basis and are not eligible for paid leave including holidays. Non-exempt students who work over 40 hours in a week will be compensated at time and one-half. Graduate assistants cannot hold an exempt and non-exempt position concurrently.

## Academic Expectations

All assistants must maintain a minimum 3.0 Texas State GPA in course work leading toward completion of a graduate degree.

## Course Load

The minimum course load required during a fall/spring term of employment is nine graduate semester hours. Students who enrolled in nine graduate semester hours during the prior spring and fall semesters (or with an approved exception on file) are not required to enroll during the summer; otherwise enrollment in three graduate hours is required for the summer term. Assistants taking more than 12 graduate semester hours during the fall/spring terms must have approval from the dean of The Graduate College. Similarly, assistants taking more than six graduate semester hours per summer session must have approval from the dean of The Graduate College.

## Required Teaching Assistantship Courses

As a condition of employment, all GTAs, DTA, GIAs, and DIAs must complete a total of three hours of professional development course work. The course titles for the required in-service teaching courses vary by department. Some departments offer one three-hour course, some departments offer a two-hour and one-hour course for a combination of three hours, and other departments offer a one-hour course to be taken three times. Assistants enroll in the course offered by the department in which they are employed during their first term of employment and continue to enroll in subsequent terms until the three hour requirement is met, as applicable. **Students may not enroll in this course work beyond the required three hours.** Up to a total of three semester hours may be used with other graduate courses to satisfy the minimum nine semester hours of enrollment required as a condition of employment. The University administration will cover the fees and tuition for the required

teaching assistantship course (up to a total of three semester credit hours only).

## Allowable Work Hours

During the fall and spring terms, assistants may work up to 50% (20 hours per week) full time equivalent (FTE). An exception request with justification from the graduate advisor or department chair approved by the dean of The Graduate College must be on file with The Graduate College for employment requested over 50% FTE. Only under exceptional circumstances may the dean of The Graduate College approve up to a maximum of 75% FTE (30 hours per week) for non-international students. The graduate dean may approve up to a maximum of 75% FTE (30 hours per week) during the fall and spring terms for non-international students. International student appointments may not exceed a combined total of 50% FTE. International graduate/doctoral assistants cannot be employed more than 50% FTE during the fall and spring terms.

## Teaching Load for Graduate/Doctoral Teaching Assistants

The usual semester hour teaching load during the fall or spring term is six semester hours or two classes. The usual semester hour teaching load during a six-week or eight-week summer session is one course (up to a maximum of four hours). A twelve-week summer session carries a normal teaching load of six hours. The dean of The Graduate College must approve any exceptions to these teaching loads.

These policies are designed to protect the graduate/doctoral assistant from bearing an unfair employment and course load, which could impede the timely completion of the degree. Refer to UPPS 07.07.06 (<http://www.txstate.edu/effective/UPPS/upps-07-07-06.html>), Salaried Graduate Assistant Employment Procedures, for more detailed information regarding salaried graduate student employment procedures.

## Assistantship Orientation

Most departments conduct one or more orientation sessions for new assistants. Newly-hired assistants should inquire about orientation attendance requirements with the department or university office at the time they apply for employment.

## Academic Eligibility Requirements

To see a detailed list of academic and enrollment requirements needed to be eligible for a specific assistantship position, please view The Graduate College's guide [http://www.gradcollege.txstate.edu/docs/gapcr\\_checklist.pdf](http://www.gradcollege.txstate.edu/docs/gapcr_checklist.pdf).

## How to Apply for a Graduate Assistantship

Applications for assistantships should be made directly to the department or university office following their application procedure. It is also possible to apply for certain assistantship positions online through Career Services at Jobs4Cats (<http://www.careerservices.txstate.edu/resources/jobs4cats.html>).

## Selection and Appointment

Offers of assistantships are contingent on available funds and admission of the applicant to a degree seeking graduate program. Graduate assistantship appointments range from a four and one half month period during a summer term to a nine or twelve month period during the fall or spring term. The term of an appointment for a Research Assistant may be based on the period of available grant funding. Renewal is at the discretion of the department or university office for which the student is employed. In all cases, the account manager or the manager's



designee will decide who is hired in accordance with the qualifications and standards required for the position.

## Supervision and Evaluation

Teaching assistants are the "teacher of record" for the course(s) assigned, however they are under the direct supervision of a faculty member experienced in the teaching discipline. Instructional assistants are supervised by the Instructor of Record or Laboratory Coordinator of the courses assigned. Research assistants are usually supervised by the faculty member or office supervisor with whom they work. All assistantship positions undergo regular evaluation as required by the department in which they are employed.

## Salaries and Benefits

Assistants are paid in accordance with the University Pay Plan salary schedule which can be viewed at <http://www.hr.txstate.edu/univpayplan/student.html>.

## Eligibility for In-state Tuition

Certain assistantship types may qualify for tuition waivers through the office of Student Business Services. For more details, please refer to the Tuition Waivers and Exceptions list here: <http://www.sbs.txstate.edu/students/waivers-exemptions.html>.

## Health Insurance

Assistants, employed at least half-time (50% FTE) for a minimum period of four and a half consecutive months, are eligible for employer group insurance plans administered by the Human Resources Benefit Office. Assistants may choose between the Student Insurance Plan administered by the Student Health Center and the Employer Group Insurance Program administered by the Human Resources Office. Also, some assistants may already be covered by insurance outside the university and, therefore, may choose not to enroll in a health insurance option offered by Texas State. Assistants should refer to the comparison summary on the Human Resources Office web site in order to make an educated decision.

## Non-Discrimination

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under, any program or activity sponsored or conducted by Texas State University on any basis prohibited by applicable law, including race, color, age, national origin, religion, gender, sexual orientation, or disability.

## Probation and Suspension

A graduate or post-graduate student as defined in this catalog is required to maintain a 3.0 cumulative grade-point average for all Texas State 5000-, 6000-, and 7000-level courses (excluding required leveling courses) listed on a student's degree audit for a graduate degree. Cumulative GPA's are computed at the end of the fall term, the spring term, and the summer.

If a **graduate degree seeking** student's cumulative GPA falls below 3.0 during any term of enrollment at Texas State, the student will be placed on academic probation. In the next term of enrollment, the student **must** raise his or her cumulative Graduate College GPA to 3.0 or above or be suspended from The Graduate College. When the student has achieved a cumulative GPA of at least 3.0 at the end of the term of probation, the student will be removed from probation status.

## Readmission

A student on suspension may petition the graduate dean for permission to re-enroll in The Graduate College. This written appeal should include additional supporting documentation. The appeal will be reviewed by the graduate advisor and subsequently by the graduate dean. Each readmission decision is made on an individual basis and the graduate dean's decision is final. Typically a student would be reinstated six months after suspension, but, in some cases, reinstatement is permissible prior to the sixth month period. If a student is readmitted after being suspended, the student must maintain a 3.0 cumulative GPA or be suspended again. Individual graduate programs may also impose additional cumulative GPA or course restrictions for their students.

## Change of Major

Graduate students on probation may not change programs or admission status without a recommendation and special request from the prospective department. The dean of The Graduate College will review the request when making the final decision. If a suspended student wants to pursue a different program, the student must petition the graduate dean for permission. The written appeal should include a justification. If the dean grants permission to a student to pursue a different program, the student must submit an application for admission and comply with instructions as identified earlier under the degree-seeking admission requirements. This procedure must be completed in ample time to meet the admission deadlines. Acceptance in one program does not guarantee acceptance in another program.

## Financial Aid

If a student is receiving financial aid, the student must also meet the satisfactory academic progress requirements for financial aid. See the "General Information" section for further details.

## Degree Information

### Degree Audit

On the admission application, a student must identify the following choices: major, minor, cognate, no minor option, area of concentration or specialization (depending on what is required in the program of study), degree type (M.A., M.Ed., M.S., etc.), and thesis or non-thesis track. After being admitted to a program, the student may access a degree audit from Texas State Self-Service (CatsWeb). The degree audit will guide the student in selecting courses for registration each term. The student should meet with his or her graduate advisor during the first term of admission to discuss options and review the degree program. Requests for changes to a student's degree audit must be submitted by the student's advisor to the dean of The Graduate College for approval.

Because graduate degree programs are individualized according to degree type and student goals, a student's particular degree program may exceed the number of hours identified for the major in this catalog.

Students receiving Veterans Administration educational assistance must provide the Texas State Office of Veteran Affairs with a copy of the graduate degree audit.

## Background/Leveling Course Requirements

Generally, background requirements are placed on the degree audit when a student is deficient in certain course work. Students should refer to the

appropriate departmental pages in this catalog for specific information about background/leveling requirements or contact the graduate advisor for their program of study.

Course work identified on a student's official degree audit as background/leveling is not used in the computation of the graduate GPA. However, this course work is computed in the overall GPA of the Texas State transcript for students graduating prior to fall 2011. See the "Grade-Point Requirements for Graduation" section. Any course work required for background/leveling is not awarded graduate degree credit.

Graduate advisors may stipulate that one undergraduate course be taken as a background requirement. All other background course deficiencies must be satisfied by the student enrolling in graduate level leveling courses.

## Degree Time Limit

A program leading to a master's degree must be completed within six years from the date of a student's initial enrollment in graduate courses used toward the degree. No credit will be applied toward the master's degree for course work completed more than six years before the date on which a student's degree is to be conferred. This time limit applies to credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions. Requests for time extension must be submitted to a student's graduate advisor, who in turn submits a recommendation to the dean of The Graduate College for final approval.

A program leading to a Ph.D. or Ed.D. degree must be completed within ten years from the date of a student's initial enrollment in graduate courses used toward the degree. No credit will be applied toward the doctoral degree for course work completed more than ten years before the date on which a student's degree is to be conferred. This time limit applies to credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions. Requests for time extension must be submitted to a student's doctoral program director, who in turn submits a recommendation to the dean of The Graduate College for final approval. Doctoral students should refer to the appropriate departmental section of this catalog for specific time limit requirements regarding advancement to candidacy and dissertation completion.

## 99 Hour Rule

In accordance with Texas Education Code, Section 54.066, the university will incur a penalty once a doctoral student accumulates 100 or more doctoral semester credit hours. In response, the Texas State University System has a tuition structure (excessive hours fee) in which a doctoral student will be charged tuition at a rate equivalent to non-resident tuition for all doctoral semester credit hours exceeding 99. Courses taken by a doctoral student at the master's or undergraduate level will not count towards the 99 hours. If the student is admitted to a doctoral program from the bachelor's degree, the count begins after 30 hours of graduate course work. This tuition structure applies to Texas residents as well as out-of-state residents and international students who were eligible to be charged tuition at the resident rate as a result of scholarship and fellowship awards or employment as graduate assistants. Students should contact their doctoral program director regarding the appeal process.

## Catalog

A student completing a master's program within a six year time limit may graduate under the catalog in effect when he or she began the graduate

program. A student completing a doctoral program within a ten year time limit may graduate under the catalog in effect when he or she began the graduate program. In certain programs, additional hours may be added to the degree for accreditation purposes. Should a program change occur, a student must submit a written request to The Graduate College to graduate under the new program requirements. A student who has questions should contact The Graduate College at 512.245.2581 and the graduate advisor.

## General Graduation Requirements Applying for Graduation and Participation in Commencement

In order to graduate and/or participate in commencement activities, a student must apply for graduation in the semester in which they plan to graduate. Late applications will not be accepted. It is the responsibility of the student to ensure completion of all degree requirements as listed on the degree audit and required by the department. It is also the student's responsibility to apply for graduation by the published deadline posted on the University Academic Calendar. That date, as well as other deadline dates, and instructions outlining how to apply for graduation are posted on The Graduate College website each term. Deadlines are also communicated via the GradBulletin. For students who missed the graduation application deadline but have completed all degree requirements, The Graduate College will issue a letter of completion upon request. Students who have missed the application deadline will have to apply for graduation during the next semester. For further information regarding the graduation application deadline, contact The Graduate College at 512.245.2581 or visit our website at: [http://www.gradcollege.txstate.edu/Current\\_Students/Graduation](http://www.gradcollege.txstate.edu/Current_Students/Graduation).

## Participation in Commencement

Participation in Commencement is not a degree requirement. It is optional. Students participate in the commencement ceremony of their academic college in the semester in which they graduate. With approval from their graduate advisor, a student can petition to participate in the commencement activities early if they have one degree requirement left. A student who has applied to graduate can petition with advisor approval to defer participation in the commencement activities for one semester if there are extenuating circumstances (convenience is not an acceptable reason to defer).

## Letter of Completion

If a student fails to apply for graduation by the published deadline date, a letter of completion may be requested. A student must submit a new graduation application by the published deadline on the University Academic Calendar and the student's diploma will be mailed the following term.

## Reapplication for the Degree

If a student fails to complete the degree requirements in time for his or her planned graduation, the student should notify The Graduate College. The student must then reapply for the next (or later) graduation within the period announced in the University Academic Calendar for degree application.

**REMEMBER, IT IS THE STUDENT'S RESPONSIBILITY TO ENSURE THAT ALL GRADUATION REQUIREMENTS HAVE BEEN MET.**

## Comprehensive Examination

All candidates for graduate degrees must pass one or more comprehensive examinations, either written, oral, or both, covering at least the field of concentration and the thesis or dissertation if one is written. Students seeking more than one degree must take a comprehensive examination for each degree major. The examination for a master's degree may not be taken until the student has completed at least 18 semester hours of graduate degree credit and may not be taken before the final term if the student has a grade deficiency. Master's degree students may take the comprehensive exam without being enrolled in course work. However, an F-1 non-immigrant international student must contact the International Office at 512.245.7966 to verify that he or she is in lawful F-1 status, especially if the comprehensive examination is the final requirement remaining to complete his or her academic program.

Arrangements for the examination may be made with the student's graduate advisor or the department chair. The Master's Comprehensive Examination form or the Dissertation Defense Report form must be filed in The Graduate College **at least ten days before the commencement at which the degree is to be conferred**. The department is responsible for submitting the report to The Graduate College.

## GPA Requirements for Graduation

To be eligible for graduation, a student must have a GPA of at least 3.0 for each major or minor/cognate listed on the degree audit. Some degree programs may also call for higher minimum requirements. A final course grade of "C" or higher is required for any graduate course that could be applied towards a graduate degree at Texas State. In addition, no grade earned below "B" on any graduate course may apply toward a doctoral degree at Texas State.

## Background/Leveling Work

Background/leveling work is not computed in the graduation GPA requirement, nor is graduate-degree credit granted for background work for the degree to be earned.

## Incomplete Grades

Incomplete grades should be cleared through the Registrar's Office **at least ten days before the commencement for which the degree is to be conferred**.

## Hours Requirements

Graduate degree programs range from 30-99 hours of course work. Most master's degree programs require a minimum of 36 semester credit hours with a maximum of 80. Students obtaining certification may be required to complete additional hours.

Doctoral students should refer to the appropriate departmental section of this catalog for specific credit hours to satisfy degree requirements.

## Residency Requirement

Doctoral students must satisfy a one-year residency requirement defined as 18 graduate credit hours (as part of the required hours of course work) taken in residence at Texas State during consecutive fall, spring, and summer terms.

## Recommendation for the Degree

The dean of The Graduate College certifies candidates for graduation after the completion of all requirements for the appropriate graduate

degree and with the approval of the departments concerned. Degrees are conferred publicly at the close of the fall term, the spring term, and the second summer session.

## Thesis Requirements for a Master's Degree

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Thesis Proposal Form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required Thesis Proposal Form may be obtained from The Graduate College or at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, the graduate advisor's signature if required by the program and the department chair's signature, the student must submit the Thesis Proposal Form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended that the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A. Failure to submit the thesis proposal in a timely fashion may result in delayed graduation.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. For a student's initial thesis course enrollment, the student will need to register for thesis course number 5399A. After that, the student will enroll in thesis B courses in their field, e.g., ENG 5399A, ENG 5199B, ENG 5299B, ENG 5399B, ENG 5599B, and ENG 5999B, in each subsequent semester until the thesis is defended with the department and approved by The Graduate College. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis

courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis has been both approved by The Graduate College and released to Alkek Library.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during the summer, the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted on the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee on or before the deadlines listed on The Graduate College website.

The following must be submitted to The Graduate College by the thesis deadline listed on The Graduate College website:

1. The Thesis Submission Approval Form bearing original (wet) and/or electronic signatures of the student and all committee members.
2. One (1) PDF of the thesis in final form, approved by all committee members, uploaded in the online Vireo submission system.

After the dean of The Graduate College approves the thesis, Alkek Library will harvest the document from the Vireo submission system for publishing in the Digital Collections database (according to the student's embargo selection). **NOTE: MFA theses will have a permanent embargo and will never be published to Digital Collections.**

Committee members who are off-campus and/or who are participating in examinations remotely do not need to provide original (wet) signatures on forms. Instead they can:

- sign and fax the form
- sign, scan and email the form
- notify the department in an email from their university's or institution's Email account that the committee chair can sign the form on their behalf
- electronically sign form

Committee chairs, graduate advisors, and department chairs need to provide original signatures. Scanned, faxed, or email communications must be submitted to The Graduate College together with the form containing original signatures.

No copies are required to be submitted to Alkek Library. However, the library will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to Alkek Library and pay the binding fee for personal copies.

## Dissertation Requirements for Doctoral Degrees

The dissertation must demonstrate the student's capability for original scholarly contribution to the field of study. Preparation of the dissertation must conform to the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The Guide may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Dissertation Committee

The dissertation committee must be composed of approved doctoral graduate faculty members. The minimum number of committee members varies by doctoral program. The student should consult with the doctoral program director regarding committee composition. To form the dissertation committee, the Dissertation Committee Request form must be completed and signed by the student, the committee members, the committee chair, the doctoral program director, and the department chair and then forwarded to the dean of The Graduate College for approval and signature. The required Dissertation Committee Request Form may be obtained from The Graduate College or at <http://www.gradcollege.txstate.edu/gcforms.html>.

## Dissertation Proposal and Defense

The student must submit the dissertation proposal and an official Dissertation Proposal and Proposal Defense Form (<http://www.gradcollege.txstate.edu/gcforms.html>) (Form D) to his or her dissertation committee. The required Dissertation Proposal and Proposal Defense Form (Form D) may be obtained from The Graduate College or at <http://www.gradcollege.txstate.edu/gcforms.html>. If the dissertation research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the dissertation research involves vertebrate animals, the Dissertation Proposal and Proposal Defense Form (Form D) must include the Texas State IACUC approval code. Each Ph.D./Ed.D. program prepares its own procedures for the dissertation proposal defense. The procedures may be obtained from the doctoral program director. Following the dissertation proposal defense, members of the dissertation committee, the doctoral program director and the department chair sign the Dissertation Proposal and Proposal Defense Form (Form D). The signed form and one copy of the proposal is then submitted to the dean of The Graduate College for approval before proceeding with research on the dissertation. The required Dissertation Proposal and Proposal Defense Form (Form D) may be obtained from the office of The Graduate College or at <http://www.gradcollege.txstate.edu/gcforms.html>.

## Dissertation Enrollment and Credit

A Ph.D./Ed.D. student may begin enrolling in a dissertation course during the term following completion of required course work as specified by the Ph.D./Ed.D. program. **Once the student begins enrolling in a dissertation course, the student must continue to enroll in a dissertation course each term in which the student receives direct dissertation supervision or guidance and/or in which the student is using university resources until the dissertation has been completed, defended, and submitted to the Texas State Alkek Library.** The minimum hours of required dissertation credit varies by Ph.D./Ed.D. program. The only grades assigned for dissertation courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a dissertation course, the instructor may issue a grade of F. If the student is making



acceptable progress, a grade of PR is assigned until the dissertation is completed. The minimum number of hours of dissertation credit ("CR"), as specified by the Ph.D./Ed.D. program, will be awarded only after The Graduate College has received the Survey of Earned Doctorates, and the dissertation has been approved by The Graduate College and released to Alkek Library.

A student must be registered for a dissertation course during the term or Summer I (during the summer, the dissertation course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Deadlines and Approval Process

Dissertation deadlines are posted on the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed dissertation must be submitted to the chair of the dissertation committee on or before the deadlines listed on The Graduate College website.

The following must be submitted to The Graduate College by the dissertation deadline listed on The Graduate College website:

1. The Dissertation Submission Approval Form (Form G), bearing original (wet) and/or electronic signatures of the student and all committee members.
2. One (1) PDF of the dissertation in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option). Some doctoral programs may require additional copies; check with the doctoral program director regarding additional program requirements.

Committee members who are off-campus and/or who are participating in examinations remotely do not need to provide original (wet) signatures on forms. Instead they can:

- sign and fax the form
- sign, scan and email the form
- notify the department in an email from their university's or institution's Email account that the committee chair can sign the form on their behalf
- electronically sign form

Committee chairs, graduate advisors, and department chairs need to provide original signatures. Scanned, faxed, or email communications must be submitted to The Graduate College together with the form containing original signatures.

After the dean of The Graduate College approves the dissertation, Alkek Library will harvest the document from the Vireo submission system for publishing in the Digital Collections database (according to the student's embargo selection). Ph.D./Ed.D. students must submit the completed Survey for Earned Doctorates (SED) online by **5pm on the Thursday two weeks prior to commencement**. This deadline is also available on The Graduate College website, listed above.

No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

## Graduate Degrees

Majors	Degrees	Thesis	Program Hours
Accounting	Master of Accountancy	M.Acy. None	33
Accounting (5-year Integrated)	Bachelor of Business Administration and Master of Accountancy	B.B.A./M.Acy. None	150
Accounting and Information Technology	Master of Science	M.S. None	36
Adult Education	Master of Arts	M.A. Optional	39-42
Adult, Professional and Community Education	Doctor of Philosophy	Ph.D. Dissertation	63
Agricultural Education	Master of Education	M.Ed. Optional	36
Anthropology	Master of Arts	M.A. Required	36
Applied Mathematics	Master of Science	M.S. Required	30
Applied Philosophy and Ethics	Master of Arts	M.A. Optional	30-33
Applied Sociology	Master of Science	M.S. None	37
Aquatic Resources	Master of Science	M.S. Required	31
Aquatic Resources	Doctor of Philosophy	Ph.D. Dissertation	60-90
Athletic Training	Master of Science	M.S. Optional	34-37
Biochemistry	Master of Science	M.S. Required	30
Biology	Master of Arts	M.A. Required	30
Biology	Master of Science	M.S. Optional	30-45
Business Administration	Master of Business Administration	M.B.A. Optional	42-45
Chemistry	Master of Arts	M.A. None	30
Chemistry	Master of Science	M.S. Required	30



Communicatio Design	Master of Fine Arts	M.F.A.	Required	60	Exercise Science	Master of Science	M.S.	Optional	36
Communicatio Disorders	Master of Arts	M.A.	Required	39	Family and Child Studies	Master of Science	M.S.	Optional	37
Communicatio Disorders	Master of Science in Comm. Disorders	M.S.C.D.	None	36	Family Nurse Practitioner	Master of Science in Nursing	M.S.N.	None	48
Communicatio Studies	Master of Arts	M.A.	Optional	30-36	Geographic Education	Doctor of Philosophy	Ph.D.	Dissertation	46
Computer Science	Master of Arts	M.A.	Optional	30-36	Geographic Information Science	Doctor of Philosophy	Ph.D.	Dissertation	46
Computer Science	Master of Science	M.S.	Optional	30-36	Geographic Information Science	Master of Applied Geography	M.A.Geo.	None	33
Creative Writing	Master of Fine Arts	M.F.A.	Required	48	Geography	Master of Applied Geography	M.A.Geo.	None	33
Criminal Justice	Master of Science in Criminal Justice	M.S.C.J.	Optional	36	Geography	Master of Science	M.S.	Required	30
Criminal Justice	Doctor of Philopshy	Ph.D.	Dissertation	53	Geography	Doctor of Philosophy	Ph.D.	Dissertation	46
Dementia and Aging Studies	Master of Science	M.S.	Optional	33	Geography	Master of Applied Environmental Geography Studies	M.A.Geo.	None	33
Developmenta Education	Master of Arts	M.A.	Optional	36	Healthcare Administrator	Master of Healthcare Administrator	M.H.A.	Optional	49
Developmenta Education	Doctor of Education	Ed.D.	Dissertation	66	Health Education	Master of Education	M.Ed.	Optional	36
Developmenta Education	Doctor of Philosophy	Ph.D.	Dissertation	66	Health Information Management	Master of Health Information Management	M.H.I.M.	Optional	36
Educational Leadership	Master of Arts	M.A.	None	36	History	Master of Arts	M.A.	Optional	33-39
Educational Leadership	Master of Education	M.Ed.	None	36	History	Master of Education	M.Ed.	None	36
Educational Technology	Master of Education	M.Ed.	None	39	Human Nutrition	Master of Science	M.S.	Optional	33-39
Elementary Education	Master of Arts	M.A.	Required	30-36	Human Resource Mgmt	Master of Science	M.S.	None	30
Elementary Education	Master of Education	M.Ed.	None	36	Interdisciplin Studies	Master of Arts in Interdisciplinary Studies	M.A.I.S.	Optional	39
Elementary Education- Bilingual/ Bicultural	Master of Arts	M.A.	Required	30	Interdisciplin Studies	Master of Science in Interdisciplin Studies	M.S.I.S.	Optional	39
Elementary Education- Bilingual/ Bicultural	Master of Education	M.Ed.	None	36	International Studies	Master of Arts	M.A.	Optional	30-36
Engineering	Master of Science	M.S.	Optional	34	Legal Studies	Master of Arts	M.A.	None	36
English	See Creative Writing, Literature, Rhetoric and Composition, or Technical Communication.				Literature	Master of Arts	M.A.	Optional	30-36

Management of Technical Education	Master of Education	M.Ed.	None	36	Rhetoric and Composition	Master of Arts	M.A.	Optional	33
Mass Communication Arts	Master of Arts	M.A.	Optional	33-36	School Improvement	Doctor of Philosophy	Ph.D.	Dissertation	63
Materials Physics	Master of Science	M.S.	Required	35	School Psychology	Specialist School Psychology	S.S.P.	None	69
Materials Science, Engineering, and Commercialization	Doctor of Philosophy	Ph.D.	Dissertation	55	Secondary Education	Master of Arts	M.A.	Required	30
Mathematics	Master of Science	M.S.	Optional	30-36	Secondary Education	Master of Education	M.Ed.	None	36-39
Mathematics	Master of Education	M.Ed.	None	36	Social Work-Advanced Practice Leadership	Master of Social Work	M.S.W.	None	36-62
Mathematics Education	Doctor of Philosophy	Ph.D.	Dissertation	78	Sociology	Master of Arts	M.A.	Optional	37
Merchandising and Consumer Studies	Master of Science	M.S.	Optional	36-39	Software Engineering	Master of Science	M.S.	Optional	30-36
Middle School Mathematics Teaching	Master of Education	M.Ed.	None	36	Spanish	Master of Arts	M.A.	Optional	33-36
Music	Master of Music	M.M.	Optional	36	Special Education	Master of Education	M.Ed.	None	36
Music Education	Master of Music	M.M.	None	36	Student Affairs in Higher Education	Master of Education	M.Ed.	None	45
Physical Education	Master of Education	M.Ed.	Optional	30-36	Sustainability Studies	Master of Arts	M.A.	Optional	36-38
Physical Therapy	Doctor of Physical Therapy	D.P.T.	None	99	Sustainability Studies	Master of Science	M.S.	Optional	36-38
Physics	Master of Science	M.S.	Optional	30-36	Technical Communication Arts	Master of Arts	M.A.	Optional	30
Political Science	Master of Arts	M.A.	Optional	33-36	Technology Management	Master of Science	M.S.	Optional	36
Population and Conservation Biology	Master of Science	M.S.	Required	30	Theatre	Master of Arts	M.A.	Optional	30-39
Professional Counseling	Master of Arts	M.A.	Optional	55-67	Theatre	Master of Fine Arts	M.F.A.	None	60
Psychological Research	Master of Arts	M.A.	Optional	38	Therapeutic Recreation	Master of Science in Recreation and Leisure Services	M.S.R.L.S.	Optional	30-36
Public Administration of Public Administration	Master	M.P.A.	None	39	Wildlife Ecology	Master of Science	M.S.	Required	30-31
Reading Education	Master of Education	M.Ed.	None	36					
Recreation Management	Master of Science in Recreation and Leisure Services	M.S.R.L.S.	Optional	30-36					

Note: Program hours depend on degree options selected. Consult the program page inside this catalog for more detailed information or contact the program's graduate advisor.

## Graduate Degree Programs

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- B (p. 581)
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## A

- Accounting and Information Technology, M.S. (p. 636)
- Accounting, B.B.A./M.Acy. (5-year Integrated) (p. 636)
- Accounting, M.Acy. (p. 631)
- Adult Education, M.A. (p. 679)
- Adult, Professional and Community Education, Ph.D. (p. 658)
- Agricultural Education, M.Ed. (p. 587)
- Anthropology, M.A. (p. 952)
- Applied Mathematics, M.S. (p. 1216)
- Applied Philosophy and Ethics, M.A. (p. 1053)
- Applied Sociology, M.S. (p. 1074)
- Aquatic Resources, M.S. (p. 1127)
- Aquatic Resources, Ph.D. (p. 1109)
- Athletic Training, M.S. (p. 837)

## B

- Biochemistry, M.S. (p. 1164)
- Biology, M.A. (p. 1134)
- Biology, M.S. (p. 1141)
- Business Administration, M.B.A. (p. 643)

## C

- Chemistry, M.A. (p. 1168)
- Chemistry, M.S. (p. 1170)
- Communication Design, M.F.A. (p. 867)
- Communication Disorders, M.A. (p. 923)
- Communication Disorders, M.S.C.D. (p. 928)
- Communication Studies, M.A. (p. 872)
- Computer Science, M.A. (p. 1174)
- Computer Science, M.S. (p. 1179)

- Creative Writing, M.F.A. (p. 961)
- Criminal Justice, M.S.C.J. (p. 597)
- Criminal Justice, Ph.D. (p. 590)

## D

- Dementia and Aging Studies, M.S. (p. 1078)
- Developmental Education, Ed.D. (p. 699)
- Developmental Education, M.A. (p. 723)
- Developmental Education, Ph.D. (p. 710)

## E

- Educational Leadership, M.A. (p. 682)
- Educational Leadership, M.Ed. (p. 684)
- Educational Technology, M.Ed. (p. 780)
- Elementary Education, M.A. (p. 735)
- Elementary Education, M.Ed. (p. 747)
- Elementary Education-Bilingual/Bicultural, M.A. (p. 759)
- Elementary Education-Bilingual/Bicultural, M.Ed. (p. 770)
- Engineering, M.S. (p. 1191)
- English, Master's (see Creative Writing, Literature, Rhetoric and Composition, or Technical Communications)
- Exercise Science, M.S. (p. 840)

## F

- Family Nurse Practitioner, M.S.N. (p. 942)
- Family and Child Studies, M.S. (p. 602)

## G

- Geographic Education, Ph.D. (p. 982)
- Geographic Information Science, M.A.Geo. (p. 1004)
- Geographic Information Science, Ph.D. (p. 990)
- Geography Resource and Environmental Studies, M.A.Geo. (p. 1020)
- Geography, M.A.Geo. (p. 1009)
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- Geography, Ph.D. (p. 997)

## H

- Health Education, M.Ed. (p. 845)
- Health Information Management, M.H.I.M. (p. 938)
- Healthcare Administration, M.H.A. (p. 933)
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- Human Resource Management, M.S. (p. 640)

## I

- Interdisciplinary Studies (Occupational, Workforce, and Leadership Studies), M.A.I.S. (p. 615)
- Interdisciplinary Studies (Occupational, Workforce, and Leadership Studies), M.S.I.S. (p. 619)
- Interdisciplinary Studies (Sustainability Studies), M.A.I.S. (p. 1091)
- Interdisciplinary Studies (Sustainability Studies), M.S.I.S. (p. 1093)
- International Studies, M.A. (p. 1044)

**L**

- Legal Studies, M.A. (p. 1056)
- Literature, M.A. (p. 966)

**M**

- Management of Technical Education, M.Ed. (p. 623)
- Mass Communication, M.A. (p. 880)
- Materials Physics, M.S. (p. 1235)
- Materials Science, Engineering, and Commercialization, Ph.D. (p. 1242)
- Mathematics Education, Ph.D. (p. 1204)
- Mathematics, M.Ed. (p. 1221)
- Mathematics, M.S. (p. 1225)
- Merchandising and Consumer Studies, M.S. (p. 611)
- Middle School Mathematics Teaching, M.Ed. (p. 1230)
- Music Education, M.M. (p. 900)
- Music, M.M. (p. 888)

**P**

- Philosophy, Master's (See Applied Philosophy and Ethics) (p. 1053)
- Physical Education, M.Ed. (p. 848)
- Physical Therapy, D.P.T. (p. 945)
- Physics, M.S. (p. 1238)
- Political Science, M.A. (p. 1059)
- Population and Conservation Biology, M.S. (p. 1149)
- Professional Counseling, M.A. (p. 686)
- Psychological Research, M.A. (p. 1068)
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**R**

- Reading Education, M.Ed. (p. 790)
- Recreation Management, M.S.R.L.S. (p. 858)
- Rhetoric and Composition, M.A. (p. 971)

**S**

- School Improvement, Ph.D. (p. 668)
- School Psychology, S.S.P. (p. 694)
- Secondary Education, M.A. (p. 801)
- Secondary Education, M.Ed. (p. 812)
- Social Work, M.S.W. (p. 627)
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- Spanish, M.A. (p. 1047)
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- Student Affairs in Higher Education, M.Ed. (p. 692)
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**T**

- Technical Communication, M.A. (p. 976)
- Technology Management, M.S. (p. 1199)
- Theatre, M.A. (p. 912)

- Theatre, M.F.A. (p. 917)
- Therapeutic Recreation, M.S.R.L.S. (p. 862)

**W**

- Wildlife Ecology, M.S. (p. 1156)

## Graduate Minors

### Minor Hours Requirements Stated Below

(Minor hours required are in addition to hours required for major)

Minor	Hours Required
Adult Education	12
Agricultural Education	6
Anthropology	9
Aquatic Resources (for Biology majors only)	6
Biochemistry (for College of Science and Engineering majors only)	6
Biology	15
Chemistry	6
Cognate (open to selected majors)	Hours vary
Communication Studies	12
Composite Minor (open to selected majors)	Hours vary
Computer Science	6-9 hours
Counseling and Guidance (Graduate Advisor approval required)	13
Criminal Justice	9
Developmental Education (Entrance requirements apply - see department section)	15
Developmental Education (Community College Support)	15
Diversity Studies	9
Educational Leadership (Entrance requirements apply - 15 see department section)	15
Elementary Education	12
Elementary Education-Bilingual/Bicultural	12
Exercise Science	12
Forensic Systems	6-9
Geography	9
Gifted and Talented - Elementary or Secondary	15
Health Education	15
Healthcare Administration	15
History	12
Industrial Technology	15
Legal Studies	9
Literature	6
Materials Physics	9
Mathematics	15
Methods and Materials (for Elementary Education and Special Education majors only)	Hours vary
Music	12
Music Education	12
Philosophy	6
Physical Education	15

Physics	6
Political Science	9
Psychology	12
Reading Education	12
Recreation and Leisure Services	12
Secondary Education	15
Sociology	9
Software Engineering	6-9 hours
Spanish	6
Special Education	15
Theatre	6
Women and Gender Studies	9

## Graduate Certificate Programs

Certificate Program	Department/School	Comments
Adult English as a Second/Foreign Language	Counseling, Leadership, Adult Education, and School Psychology	18 hours for completion
Corporate Communication and Training	Communication Studies	9 hours for completion
Healthcare Administration	School of Health Administration	15 hours for completion
Intelligence Analysis	Criminal Justice	15 hours for completion
Long Term Care Administration	School of Health Administration	15 hours for completion
Music Performance	Music	15 hours for completion. No grade less than "B" on required courses.
Polysomnographic Technology	Department of Respiratory Care	15 hours for completion. Applicants must have CRT/RRT credential from the USA as administered through the National Board for Respiratory Care (NBRC).
Professional Ethics	Philosophy	6 hours for completion
Public History Studies	History	15 hours for completion

## Texas State Certificate Program Application of Completion

Students in the certificate programs must maintain a minimum GPA of 3.0 in order to receive a certificate of completion for the program. See the table above for the specific GPA and course grade requirements per certificate program. A final course grade of "C" or higher is required for any graduate course that may be applied towards a graduate certificate at Texas State. All certificate course work must be completed within four years of initial enrollment.

In order to graduate and/or participate in commencement activities, a student must apply for graduation in the semester in which they plan to graduate. Late applications will not be accepted. It is the responsibility of the student to ensure completion of all degree requirements as listed on the degree audit and required by the department. It is also the

student's responsibility to apply for graduation by the published deadline posted on the University Academic Calendar. That date, as well as other deadline dates, and instructions outlining how to apply for graduation are posted on The Graduate College website each term. Deadlines are also communicated via the GradBulletin. Students who have missed the application deadline will have to apply for graduation during the next semester. For further information regarding the graduation application deadline, contact The Graduate College at 512.245.2581 or visit our website at: [http://www.gradcollege.txstate.edu/Current\\_Students/Graduation](http://www.gradcollege.txstate.edu/Current_Students/Graduation).

**Certificate and degree programs are approved in accordance with guidelines provided by the Texas Higher Education Coordinating Board and the Texas State University System.**

## Tuition and Fees

The following are general descriptions of the various tuition and fees charged for registration for academic courses. Refer to [http://www.sbs.txstate.edu/billing/fee\\_definitions.html](http://www.sbs.txstate.edu/billing/fee_definitions.html) for the most current information on the amounts charged for tuition and fees. **Texas State reserves the right to change tuition and fees, in keeping with the actions of the Texas Legislature, the Texas State University System Board of Regents, and university administration.**

### Tuition

Faculty and staff salary increases, new faculty and staff positions, new academic programs and other strategic initiatives, and financial aid.

### Student Service Fee

Activities that involve or directly benefit students that are separate and apart from regularly scheduled academic functions.

### Student Center Fee

Operate and maintain Student Center. (Fee is waived for students enrolled *exclusively* in off-campus courses.)

### Bus Fee

Operate shuttle buses. (Fee is waived for students enrolled *exclusively* in off-campus courses.)

### Computer Services Fee

Classroom technology, academic computer labs, and campus connectivity.

### Student Publications Fee

Pays for administrative publications. (Does not pay for *The University Star* or the *Pedagog* yearbook.)

### Recreational Sports Fee

Operate and maintain Rec Sports Center and Campus Rec operations. (Fee is waived for students enrolled *exclusively* in off-campus programs.)

### ID Card Services Fee

Supports the operation of the Bobcat Card and the Texas State University One Card System which provides access, identification, and debit card functionality.



## International Education Fee

Scholarships for students studying abroad

## Medical Service Fee

Basic operations of the Student Health Center. (Fee is waived for students enrolled *exclusively* in off-campus programs.)

## Off-Campus Fee

All students enrolled in classes held at off campus locations are required to pay \$30 per hour that will help defray the cost of services provided at these locations.

Note: For students enrolled in both on-and off-campus courses, the off-campus fee is *in addition to* all other fees.

## Electronic Course Fees

An electronic course fee of \$50 per hour will be charged for courses taught via the internet or hybrid instructional method. Same as off-campus, fees may be waived if enrolled exclusively in electronic course and/or off campus courses.

## McCoy Graduate Program Fee:

A fee of \$150 per credit hour enrolled will be charged to students admitted to the McCoy College of Business Administration graduate degree programs. The McCoy Graduate Program fee funds a variety of initiatives to enhance the graduate student educational experience, including a career support professional to work directly with master's students, scholarships for study abroad experiences, graduate research assistant positions, professional development events for students, including the McCoy Graduate Boot Camp twice each year, and field projects with area businesses.

## Other Special Fees and Charges

(In addition to registration fees)

Degree Seeking Admission Application Fee	\$40
Post-graduate Students Admission Application Fee	\$10
International/Evaluation Fee for International Students	\$50
Certification Plan Fee	
First Plan	\$75
Additional Plans	\$25 each
Delinquent Installment Fee	\$25
Installment Enrollment Fee	\$30
Late Registration Fee	\$25
Musical Instrument Maintenance Fee	\$30
Physical Therapy Application Fee	\$25
Returned Check Fee	\$30
Speical Late Registration Fee	\$100/\$200
Transcript Fee (official copy)	\$5

## Laundry Service Fees for Physical Education Uniforms

### Laundry Service Fees

For individuals who wish to use the university physical education uniforms, fees are as follows:

- **Student** \$7.00 per summer term
- **Faculty/Staff** \$50.00 per twelve months

## Additional Fees and Expenses

### International Evaluation Fee

If an applicant is considered for admission on the basis of foreign credentials, the student must submit a non-refundable international evaluation fee of \$50, in addition to the \$40 application fee, with the application for admission to The Graduate College. No applications will be considered until the necessary fee is paid. International Students who have earned a bachelor's degree from Texas State and do not require the F-1 visa do not have to pay the \$50 international evaluation fee.

### International Students Operations Fee

International students with an immigration status of "F-1" or "J-1" will be charged an international student operations fee in the amount of \$60 per long term/\$30 per summer session for the maintenance of records, compliance with government regulations, and services for nonimmigrant students.

### Mandatory Health Insurance for International Students

All International students on non-immigrant visas are required by university policy to have health insurance coverage while at Texas State University.

1. International students will be required to purchase the Blue Cross Blue Shield student health insurance plan endorsed by the university.
2. Students will have to purchase the health insurance directly through Academic Health Plans.
3. Students with existing health plans may qualify for a waiver. Qualifying plans can be found in the link below.

Detailed information with instructions on how to purchase the health insurance or submit documents to request a waiver will be sent to international students by the Student Health Center. The health insurance plan must be purchased or a waiver approved prior to the start of classes.

Questions about the international student health insurance requirement should be directed to the Student Health Center at 512-245-2161. Please feel free to visit the website at <http://www.healthcenter.txstate.edu/> international for more information.

### Auditing Fees

Where auditing of a course is permitted, all fees will be the same as if the course were taken for credit. Senior citizens, 65 or older, may audit courses without payment of a fee if space is available.

## Fee Reduction

### Qualifications

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054, if the student is registered for thesis or dissertation credit **only** and provided such credit is the final credit hour requirement for the degree in progress. Only Texas residents can qualify for this fee reduction.

### Procedure

If a student meets the above qualifications, these are the steps to follow during registration:

1. Register on CatsWeb. Immediately after completing the registration process, contact The Graduate College to request a "Fee Reduction Verification of Enrollment" form.
2. The Graduate College will verify student eligibility to obtain reduction and then forward the Fee Reduction Verification of Enrollment form to the Student Business Services office, which will adjust the bill.
3. The adjustment should be made before paying fees if possible, but not later than the 12<sup>th</sup> class day (4<sup>th</sup> class day in summer terms).

## Student Financial Obligations

Students are expected to meet financial obligations to the university when they are due. Tuition is due on the date given in the academic calendar, and students are not entitled to attend classes unless the tuition bill has been paid in full or in accordance with an approved payment plan. Refer to the Student Business Services website (<http://www.sbs.txstate.edu/students/payment-options.html>) for detailed information on payment options and requirements of payment plans.

Failure to pay the amount owed in the allotted time, or payments made with checks that are returned to Texas State unpaid by the bank may result in any or all of the following:

1. Dismissal from the university,
2. Withholding of future registration privileges,
3. Withholding of grades or an official transcript,
4. Withholding the conferring of a degree,
5. Bar against re-admission for the student,
6. Warrant hold with the State of Texas,
7. Referral of debt to a collection agency.

## Late Registration Fee

A late fee will be charged if a student registers during the late registration period.

## Campus Parking/Vehicle Registration

Every student, faculty, and staff person who operates or parks a vehicle on campus must:

1. register the vehicle with Parking Services;
2. purchase a permit;
3. properly display the permit any time the vehicle is parked on campus; and
4. become familiar with and abide by the Traffic and Parking Rules.

The rules are enforced at all times throughout the year. The purchase of a permit and registration of the vehicle do not guarantee a parking

space. Residence hall students must first submit an application to the Parking Services office before bringing a vehicle to campus. Residence hall parking spaces are limited, and it is recommended that on-campus residents not bring a vehicle to campus unless absolutely necessary. Commuters may register their vehicles on-line at <http://www.parking.txstate.edu/>.

Fees for vehicle registration will be published each year in the official rules and regulations and on the Parking Services website. Additional information concerning the purchase and issuance of parking permits may be obtained by contacting Parking Services at 512.245.2887.

## Payment of Fees

The university reserves the right to change fees in keeping with the acts of the Texas Legislature and the Board of Regents, Texas State University System.

Registration fees must be paid before classes begin. Payment may be made by check or money order payable to Texas State University. Students can make on-line payments using E-Checks or Credit/Debit Card. **Credit/Debit Cards are accepted on-line only.** For credit card or electronic check payments log on to <http://www.sbs.txstate.edu/>.

### Please note:

- A 2.75% convenience fee with a minimum \$3 per transaction fee is applied to credit/debit card payments. The convenience fee is not collected by the university and is therefore non-refundable.
- Mailed payments must be **received** — not postmarked — **by the due date**. Students must make allowances for any postal delays.
- Students must have their NetID and password to access their account.

Tuition/fees and room/board may be paid through the following alternatives:

1. Payment for tuition, fees, room, and board in full. See the Registration Information booklet for specific dates.
2. Enrollment in a payment plan.

During the fall and spring terms, a down payment of 30% is due at the time of enrollment into the payment plan. Two additional installments of the remaining balance will be due on the designated due dates. See the *Registration Information* booklet for specific dates.

During the summer term, a down payment of 50% is due at the time of enrollment into the payment plan. The payment plan is only available for the first part of term. One additional installment of the remaining balance will be due on the designated due date. See the *Registration Information* booklet for specific dates.

**A STUDENT WHO FAILS TO MAKE FULL PAYMENT OF TUITION AND FEES, INCLUDING ANY INCIDENTAL FEES, BY THE DUE DATE MAY BE PROHIBITED FROM REGISTERING FOR CLASSES UNTIL FULL PAYMENT IS MADE. A STUDENT WHO FAILS TO MAKE PAYMENT PRIOR TO THE END OF THE TERM MAY BE DENIED CREDIT FOR THE WORK DONE THAT TERM.**

## Returned Checks

If a check or EFT is returned unpaid for any reason other than the admitted error of the bank, the student must pay for the returned check with cash, cashier's check, money order or credit card (MasterCard, VISA, Discover, Diners Club or American Express) immediately. A \$30 service

fee is assessed for each returned check. Until the check is paid, the student will be on "Cash Only" status. Cash Only status is a denial of check cashing privileges on campus.

Individuals who have three returned checks or EFT within a 12-month period will be placed on Cash Only status.

Stopping payment on a check for fees or allowing the check to be returned unpaid by the bank for any reason does not constitute official withdrawal. Failure to follow procedures for withdrawing from Texas State may result in financial penalties and delays with future enrollment in the university.

## Residency for Tuition Purposes

The determination of residency classification for tuition purposes is governed by statutes enacted by the Texas Legislature and rules and regulations promulgated by the Texas Higher Education Coordinating Board. A student or applicant is classified either as a resident of Texas, a non-resident, or a foreign student for tuition purposes. An individual's residency classification is based on information from his or her admission application. If an applicant or student is classified as a non-resident and wishes to be considered for reclassification as a resident, it is necessary to submit the Residency Core Questions available from the Office of Undergraduate Admission. Documentation may be requested by the institution in order to resolve issues raised by the information provided in response to the Core Residency Questions.

Chapter 21 of the Texas Higher Education Coordinating Board Rules includes the following provisions covering some of the more common residency situations. They are neither exhaustive nor complete and should not be interpreted as such. Full regulations are available in the Coordinating Board publication *Rules and Regulations for Determining Residency Status* available at <http://www.collegeforalltexas.com/> (Search: Residency).

### Determination of Residence Status

1. The following persons shall be classified as Texas residents and entitled to pay resident tuition:
  - a. a person who graduated from a public or accredited private high school in this state or received the equivalent of a high school diploma in this state, and maintained a residence continuously in this state for the thirty-six months immediately preceding the date of graduation or receipt of the diploma equivalent, as applicable; and the 12 months preceding the census date of the academic term in which the person enrolls in an institution.
  - b. a person who established a domicile in this state not less than 12 months before the census date of the academic term in which the person enrolls in an institution; and maintained a residence continuously in the state for the 12 months immediately preceding the census date of the academic term in which the person enrolls in an institution.
  - c. a dependent whose parent established a domicile in this state not less than 12 months before the census date of the academic term in which the person enrolls in an institution; and maintained a residence continuously in the state for the 12 months immediately preceding the census date of the academic term in which the person enrolls in an institution.
2. The following non-U.S. citizens may establish a domicile in this state for the purposes of subsection (a) (2) or (3) of this section:
  - a. a Permanent Resident;

- b. a person who is eligible for permanent resident status;
  - c. an eligible nonimmigrant that holds one of the approved types of visas. A complete list is available on the Coordinating Board website at <http://www.thecb.state.tx.us/Rules/>
  - d. a person classified by the USCIS as a Refugee, Asylee, Parolee, Conditional Permanent Resident, or Temporary Resident;
  - e. a person holding Temporary Protected Status, and Spouses and Children with approved petitions under the Violence Against Women Act (VAWA), an applicant with an approved USCIS I-360, Special Agricultural Worker, and a person granted deferred action status by USCIS;
  - f. a person who has filed an application for Cancellation of Removal and Adjustment of Status under Immigration Nationality Act 240A (b) or a Cancellation of Removal and Adjustment of Status under the Nicaraguan and Central American Relief Act (NACARA), Haitian Refugee Immigrant Fairness Act (HRIFA), or the Cuban Adjustment Act, and who has been issued a fee/filing receipt or Notice of Action by USCIS; and
  - g. a person who has filed for adjustment of status to that of a person admitted as a Permanent Resident under 8 United States Code 1255, or under the "registry" program (8 United States Code 1259), or the Special Immigrant Juvenile Program (8 USC 1101(a) (27) (J)) and has been issued a fee/filing receipt or Notice of Action by USCIS.
3. The domicile of a dependent's parent is presumed to be the domicile of the dependent unless the dependent establishes eligibility for resident tuition under subsection (a) (1) of this section.
  4. A domicile in Texas is presumed if, at least 12 months prior to the census date of the term in which he or she is to enroll, the person owns real property in Texas, owns a business in Texas, or is married to a person who has established a domicile in Texas. Gainful employment other than work-study and other such student employment can also be a basis for establishing a domicile.
  5. The temporary absence of a person or a dependent's parent from the state for the purpose of service in the U.S. Armed Forces, Public Health Service, Department of Defense, U.S. Department of State, as a result of an employment assignment, or for educational purposes, shall not affect a person's ability to continue to claim that he or she is a domiciliary of this state. The person or the dependent's parent shall provide documentation of the reason for the temporary absence.
  6. The temporary presence of a person or a dependent's parent in Texas for the purpose of service in the U.S. Armed Forces, Public Health Service, Department of Defense or service with the U.S. Department of State, or as a result of any other type of employment assignment does not preclude the person or parent from establishing a domicile in Texas.

### Exceptions

A non-resident or foreign student may qualify to pay in-state tuition. Students should direct questions and documentation for these waivers to Student Business Services.

1. The student or student's spouse or parent is a member of the Armed Forces or a commissioned officer of the Public Health Service and is stationed in Texas. (Military and Public Health Service personnel who maintain their official home of record as Texas or who meet the criteria for establishing a domicile in Texas are considered to be Texas residents.)
2. The student or student's spouse or parent is employed at least half-time as a teaching or research assistant in a position related to the

assistant's degree program at a Texas public institution of higher education.

- The student or student's spouse or parent is employed at least half-time on a regular monthly salaried basis as a teacher or professor at a Texas public institution of higher education.
- The student holds an approved competitive scholarship from Texas State of at least \$1000 for the academic year or summer awarded by an official Texas State scholarship committee.
- The student or student's spouse or parent has located in Texas as an employee of a business or organization that became established in this state as part of the state economic development and diversification program. (Note: Go to [http://www.theeb.state.tx.us/Rules/ Chapter 21, Sub Chapter X](http://www.theeb.state.tx.us/Rules/Chapter%2021,Sub%20Chapter%20X) for a list of qualified employers.)
- The student is a New Mexico resident who resides in a county bordering Texas.
- The student is a Louisiana resident who resides in a parish bordering Texas.
- The student is a resident of Mexico who has demonstrated a financial need as determined by the financial aid office.

## Refund of Fees

Refer to the "Refund Information" section of the Student Business Services (SBS) website for detailed information of the university's refund policy: <http://www.sbs.txstate.edu/students/refunds>.

Two scenarios that may result in students becoming eligible for a refund are:

- Withdrawal** – Dropping all classes. Students must do this through the Office of the University Registrar.
- Dropping a class** – Removing one or more classes from the student's schedule while remaining enrolled in at least one course.

Please note: The refund schedule for withdrawal and dropping a class are not the same. Refund schedules, specific to each semester, can be found on the "Refund Information" page of the SBS website.

## College of Applied Arts

### Dean

T. Jaime Chahin, Ph.D.

Agriculture Building Room 300

T: 512.245.3333 F: 512.245.3338

<http://www.appliedarts.txstate.edu/>

### Assistant Dean

Donna Vandiver, Ph.D.

### Department Chairs/School Directors

Aerospace Studies—Lt. Col. Matthew S. Fehrman

Agriculture—Madan M. Dey, Ph.D.

Criminal Justice—Christine Sellers, Ph.D.

Family and Consumer Sciences—Rodney C. Runyan, Ph.D.

Military Science—Lt. Col. Jose A. Garcia, M.A.

Occupational, Workforce, and Leadership Studies—Mary Jo Biggs, Ph.D.

Social Work—Jose E. Coll, Ph.D.

The College of Applied Arts' mission is to prepare undergraduate and graduate students for careers through programs of high quality in academic, professional, and technical areas; to further faculty excellence

in teaching supported by quality scholarship; and to enhance our involvement with local, state, national, and international constituencies.

## Department of Agriculture

Agriculture Building Room 206

T: 512.245.2130 F: 512.245.3320

<http://www.ag.txstate.edu/>

The Department of Agriculture at Texas State prepares students to work as professionals in the agriculture industry, in leadership and management positions, and in educational settings such as community colleges or public schools. The department offers an emphasis on teaching development with research possibilities. The campus is located near the Freeman Center, a 3,500-acre, university-operated teaching and research ranch that provides a unique learning environment. Agricultural education has a long history at this university. When Southwest Texas State Normal School (now Texas State University) was created in 1899, it was charged with the responsibility of teaching agriculture to teachers who were training to work in rural schools. Today, agricultural education students enjoy a unique education experience with practical, hands-on classes combined with valuable educational insight. A variety of courses are offered such as *Research Methods*, *Adult Education*, *Curriculum Development*, *Philosophy of Agricultural Education*, and *Methods of Technological Change*, all of which help build a strong foundation to a successful career in agricultural education.

## Master of Education (M.Ed.)

- Major in Agricultural Education (p. 587)

## Minor

- Agricultural Education (p. 590)

## Masters of Education (M.Ed.), Major in Agricultural Education

### Major Program

The master's program offered through the department prepares students to work as professionals in the agriculture industry and in positions of leadership and management in secondary schools and adult education.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/aged.html>.

## Degree Requirements

The department offers an emphasis in teaching development with research possibilities. A thesis or non-thesis degree may be selected. The major and supportive courses are to be taken with the advice and consent of the student's advisory committee, which consists of three or more faculty selected with the help of the graduate advisor.

## Course Work Requirements

### Non-thesis Option with Minor

#### Required Courses

AGED 5314

Special Problems in Agricultural Education

3



AGED 5318	Administration and Supervision of Vocational Education	3
AGED 5320	History and Philosophy of Agricultural Education	3
AGED 5330	Research Methods in Agricultural Education	3
AGED 5331	Guidance	3
AGED 5335	Curriculum Development of Vocational Programs	3
AGED 5319	Principles and Methods of Adult Education	3
<b>Minor in Integrated Agriculture</b>		
Choose 15 hours in consultation with the graduate advisor		15
Total Hours		36

## Thesis Option with Minor

### Required Courses

AGED 5318	Administration and Supervision of Vocational Education	3
AGED 5330	Research Methods in Agricultural Education	3

### Agricultural Education Electives

Choose 9 hours of advisor-approved electives	9
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### Minor in Integrated Agriculture

Choose 15 hours in consultation with the graduate advisor	15
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### Thesis

Choose a minimum 6 hours	6	
AGED 5199B	Thesis	
AGED 5299B	Thesis	
AGED 5399A	Thesis	
AGED 5399B	Thesis	
AGED 5599B	Thesis	
AGED 5999B	Thesis	
Total Hours		36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form

be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or



PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Agriculture: AG (p. 589), AGED (p. 589)

## Courses Offered

### Agriculture (AG)

#### AG 5360. Advancements in Animal Science.

Survey of the current knowledge and concepts in animal production including economic considerations and current production problems in breeding and feeding livestock

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AG 5370. Special Problems in Technical Agriculture.

Special problems will be selected to meet the needs of the individual student. May be repeated (once) for additional credit when the problem differs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### Agricultural Education (AGED)

#### AGED 5101. Instructional Skill Development.

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Agricultural Education. Topics covered are essential teaching strategies, techniques, evaluation design, ethical classroom behavior, and effective instructional motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### AGED 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### AGED 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### AGED 5314. Special Problems in Agricultural Education.

The student is given the opportunity to work on problems of special interest and need in the discipline of agricultural education. May be repeated (once) for additional credit when the problem differs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5318. Administration and Supervision of Vocational Education.

The administration of comprehensive vocational education programs with emphasis on the operation and implementation of programs governed by state and national laws

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5319. Principles and Methods of Adult Education.

The rationale, planning, implementing, conducting, and evaluation of adult education programs in formal and non-formal settings will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5320. History and Philosophy of Agricultural Education.

This course covers the history, basic principles, and philosophy of different programs of agricultural education existing today

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5321. Methods of Technological Change.

The dynamics of cultural change as theoretical framework for planned technological change, methods of implementing change, the effects of change, and the prediction of change will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5330. Research Methods in Agricultural Education.

The principles and procedures of using and communicating both quantitative and qualitative research in agricultural education will be addressed. Special emphasis will be given to using appropriate methods to address research problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5331. Guidance.

Analysis of occupational and vocational opportunities for vocational students; includes work in interpersonal communications as well as in the techniques of individual and group counseling in guidance. Practice in personality and occupational interest testing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AGED 5335. Curriculum Development of Vocational Programs.

Principles and practices in developing curricula for different areas of vocational education will be emphasized. The dynamics of cultural and technological changes on methods of planning and implementing vocational curricula as it relates to the educational needs of vocational youth will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5371A. Agriculture Farm Power and Machinery.**

Advanced study in areas related to the usage of farm power units and machinery in the production and processing of food and fiber. Emphasis will be placed on modern technology associated with various equipment utilized in mechanized agriculture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5371D. Agricultural Structures Design.**

Principles of design and construction for structures associated with agricultural production. Emphasis will be placed on processes, materials and standards associated with different areas of production agriculture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5371E. Advanced Welding Processes and Designs.**

Advanced study in areas related to welding processes and equipment utilized in the design, construction and repair of agricultural structures and equipment. Emphasis will be placed on processes and methods, which may be applicable to agriculture production situations as well as in the processing of agricultural products

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Agricultural Education, AGED 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Agricultural Education

AGED 5318	Administration and Supervision of Vocational Education	3
AGED 5335	Curriculum Development of Vocational Programs	3
Total Hours		6

## School of Criminal Justice

Hines Building Room 108

T: 512.245.2174 F: 512.245.8063

<http://www.cj.txstate.edu/>

Located in the Hines Academic Center, the School of Criminal Justice offers master's- and doctoral-level curricula that address a wide range of social issues and research opportunities.

The School of Criminal Justice is a vibrant department, with approximately 70 master's students and 40 doctoral students. Twenty-three full-time faculty members are involved in educating students as well as engaging in a wide range of research endeavors. The School of Criminal Justice also administers a number of institutes and centers, such as the Center for Geospatial Intelligence and Investigation and The Advanced Law Enforcement Rapid Response Training (ALERRT).

The goals of the department are two-fold:

1. the preparation of competent and responsible public servants to assume roles in criminal investigation and apprehension, agency administration, prosecution, and correctional services, and
2. the preparation of graduates with advanced theoretical knowledge and research skills in criminal justice for leadership roles in academic, public policy, and administrative positions.

These goals are pursued in the context of a broad university curriculum that provides a foundation of knowledge necessary to function in a challenging world.

### Doctor of Philosophy (Ph.D.)

- Major in Criminal Justice (p. 590)

### Master of Science in Criminal Justice (M.S.C.J.)

- Major in Criminal Justice (p. 597)

### Minor

- Criminal Justice (p. 601)

### Certificate

- Intelligence Analysis (p. 601)

## Doctor of Philosophy (Ph.D.), Major in Criminal Justice

### Major Program

The School of Criminal Justice at Texas State offers a doctoral program for:

1. criminal justice professionals who seek advanced education and
2. students who will pursue academic appointments at colleges and universities in Texas and around the nation.

Texas State is located in the heart of the central Texas corridor, near sixteen state criminal justice offices and thirteen Texas counties, including Travis (Austin) and Bexar (San Antonio). The university's geographic proximity to state criminal justice agency headquarters for

law enforcement, criminal courts, and corrections, and to managers and executives in these agencies, makes it an ideal location for offering a doctoral-degree program.

The doctoral program is part of a vibrant school, with approximately 800 bachelor's students and 70 master's students. Twenty-three full-time faculty members are involved in a wide range of research. A list of faculty and their research interests is available at <http://www.cj.txstate.edu/people/faculty>. The School of Criminal Justice also administers a number of institutes and centers, including the Center for Geospatial Intelligence and Investigation.

Courses are offered in the evenings for the convenience of working professionals. Students are classified as either full-time (nine hours per term) or part-time. All students will be given the opportunity to initiate, complete, present, and publish original research.

Each student develops an appropriate degree plan to meet their career and academic goals. The degree plan will include a mix of theoretical, analytical, and elective courses that will prepare students to work independently and in multidisciplinary teams.

## Educational Goal

The central educational goal of the Ph.D. program in criminal justice at Texas State is to prepare doctoral students to assume leadership roles in academic, public policy, and administrative positions within a rapidly changing criminal justice system. The school has developed a programmatic perspective that is sensitive to the importance of research skills, balanced with theoretically informed policy analysis, so that students can more effectively address the challenges in criminal justice in Texas and across the nation. Students gain expertise to apply statistically advanced research methodologies to conduct empirical studies in crime, law, public policy, and administration of the criminal justice system.

Other educational goals and objectives are to:

- Identify the theoretical perspectives and foundations of current research in the study of crime, law, and public policy decision-making undertaken by criminal justice agencies to assist law enforcement, court personnel, and corrections staff to plan, develop, and implement timely, efficient, and sound responses to crime.
- Apply precise, empirically validated, and tested research methods to investigate, analyze, and improve theory and policy to provide policy makers with the most current research and applicable technology to address emergent public safety growth areas, such as homeland security, terrorism, and the intersection of race, gender, and crime.
- Communicate effectively to educate and inform professional managers and administrators of criminal justice agencies, their service personnel (e.g., police) and the community at-large about the 'best practices' for addressing the control of crime at the neighborhood, community, state, and national levels.
- Recognize ethical dilemmas and make ethically sound decisions to ensure that recommended criminal justice policy becomes a useful guide, if not benchmark procedure, for executives and heads of criminal justice agencies as they develop their strategic plans to address crime and public safety at the local, state, and national levels.
- Apply a broad understanding of the legal and empirical elements of criminal justice administration in leadership positions to encourage current and future working professionals and executives in criminal justice agencies to incorporate more comprehensive training using

the 'best practices' in leadership and management theory when developing, planning, and implementing policies that effect their own agencies and the surrounding communities they serve.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cjp.html> (<http://www.gradcollege.txstate.edu/cjp.html>).

## Financial Assistance

Assistantships and scholarships are available to qualified applicants. The School of Criminal Justice offers doctoral instructional assistantships and teaching assistantships on a competitive basis to full-time students enrolled in the criminal justice Ph.D. program. An offer of financial support will normally be made at the time that a student is accepted into the program. The Graduate College can provide further information regarding scholarships.

## Degree Requirements

### Degree Audit

Each Ph.D. student is issued a preliminary degree audit by The Graduate College which should be used to plan the student's course of study. In the first term of enrollment, students should review the degree audit in consultation with their supervising professor and the program director.

With admission into the doctoral program, **it is expected that students will pursue their course work and research activities in an efficient and timely manner.** If it is determined that a student is not making adequate progress toward completion of the doctoral degree requirements, consultations will be undertaken between the student, their Ph.D. advisor, the program director, and the department graduate committee to develop a remediation plan, which may include revising a student's program of study or research. Failure to successfully remedy documented deficiencies will result in termination of the student's enrollment in the doctoral program at the discretion of the graduate committee. Students removed from the doctoral program in this manner may appeal to the dean of The Graduate College for reinstatement in the program.

### Course Work Requirements

The Ph.D. in criminal justice requires students to complete, at minimum, 53 credit hours. All doctoral students are required to enroll in CJ 7210 Proseminar during the first term as an introduction to faculty research interests and areas of expertise, university research and development resources, and program expectations. Doctoral students selected for teaching assistantships will be required to enroll in CJ 7301 Instructional Assistant Supervision during the first three terms that they teach classes.

Students should complete all courses under the doctoral core and CJ 7320 and CJ 7321 under research tools as soon as possible after initiating course work. Each student will develop a degree plan, in consultation with the doctoral coordinator and subject to approval by the doctoral executive council, which identifies the appropriate qualifying elective courses and doctoral development electives necessary for achieving the degree. Students must complete six credit hours of qualifying electives prior to taking their comprehensive examinations. After completing the comprehensive examination, doctoral students are required to complete three additional courses totaling nine credit hours from doctoral electives.

These courses will be chosen with the assistance and approval of the doctoral coordinator and the student's dissertation advisor.

#### Proseminar

CJ 7210	Proseminar	2
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#### Core Courses

CJ 7310	Philosophy of Law, Justice, and Social Control	3
CJ 7311	Advanced Criminological Theory	3
CJ 7312	Criminal Justice Ethics, Administration, and Public Policy	3
CJ 7313	Race and Ethnicity in Crime and Criminal Justice	3

#### Research Tools

CJ 7320	Quantitative Research Methods	3
CJ 7321	Linear Regression for Criminal Justice Research	3
CJ 7322	Advanced Research for Planning and Evaluation	3

#### Research Tools Elective Courses

CJ 7330	Qualitative Research Methods	3
or CJ 7336	Survey Research Methods for Criminal Justice	

#### Qualifying Elective Courses

Choose 6 hours

CJ 7330	Qualitative Research Methods	
CJ 7331	Law and Behavioral Science	
CJ 7332	Law and Public Policy	
CJ 7333	Legal and Legislative Research	
CJ 7334	Organizational Theory	
CJ 7335	Criminal Justice Leadership and Management	
CJ 7336	Survey Research Methods for Criminal Justice	
CJ 7337	Comparative Criminal Justice Systems, Philosophies, and Public Policy	

#### Development Electives

Choose 9 hours

CJ 7350A	Forecasting, Trend Analysis, and Data Interpretation	
CJ 7350B	Academic Scholarship and Communication	
CJ 7350C	Qualitative Data Collection, Coding and Analysis	
CJ 7350D	Ethnography of Criminal Justice	

#### Dissertation

Choose 12 hours

CJ 7199	Dissertation	
CJ 7299	Dissertation	
CJ 7399	Dissertation	
CJ 7599	Dissertation	
CJ 7699	Dissertation	
CJ 7999	Dissertation	

Total Hours 53

## Advancement to Candidacy

### Application for Advancement to Candidacy

Students can download the "Application for Advancement to Candidacy form" from The Graduate College website. The student should complete and sign the upper portion of the form and return it to the doctoral coordinator. When all requirements for admission to candidacy have been met (completion of core course work, successful performance on the comprehensive examination, approval of dissertation advisor/committee,

and submission of an approved dissertation proposal), the doctoral coordinator will forward the Application for Advancement to Candidacy form to the dean of The Graduate College for review and approval.

The dean of The Graduate College approves advancement to candidacy once all requirements are met and at the recommendation of the doctoral executive council.

In addition, before advancement to candidacy, students are required to complete the following:

1. Completion of all core courses toward the doctoral degree with a GPA of 3.5 or higher on a 4.0 scale.
2. Satisfactory performance on the comprehensive examination. "Low pass" is the lowest satisfactory grade.
3. The student must select a dissertation advisor, and that advisor must be approved by the doctoral executive council. The student also must select a dissertation committee comprised of three additional members of the doctoral faculty and at least one external member from outside the department or the University.
4. The student must choose a topic with the approval of the student's dissertation advisor and committee.
5. The student will submit a title and a written proposal for the dissertation to the student's dissertation committee and successfully defend the proposal in an oral presentation with the dissertation committee. The proposal will include a statement of the problem to be studied, a discussion of the relevant literature, and the research method of the proposed dissertation topic.
6. The council will make a recommendation to the graduate dean who makes the final decision on the student's advancement to candidacy. The Graduate College will notify the student once the decision has been made.

### Advancement to Candidacy Time Limit

Full-time, traditional students must be advanced to candidacy within five years of initiating Ph.D. course work applied toward the degree. Non-traditional, part-time students may request extensions from the doctoral executive council as long as they maintain a GPA of 3.5 and are making consistent progress toward fulfilling their degree requirements. The doctoral executive council will review part-time students' requests for extensions on an individual, case-by-case basis.

No credit will be applied toward a student's doctoral degree for course work completed more than three years before the date on which the student is admitted to candidacy. This time limit applies to course credit earned at Texas State, as well as course credit transferred to Texas State from other accredited institutions.

### Grade-Point Requirements for Advancement to Candidacy

A minimum GPA of 3.5 on all course work undertaken as a doctoral student in the criminal justice program is required for admission to candidacy. No grade earned below "B" on any graduate course work may apply toward a Ph.D. degree in criminal justice at Texas State.

Incomplete grades must be cleared through The Graduate College at least ten days before approval for advancement to candidacy will be granted.

### Dissertation Proposal

A dissertation proposal prepared by the student and approved by the student's Ph.D. advisor and a majority of the other members of the dissertation committee is a requirement for Advancement to Candidacy



status. The proposal must outline the substance and scope of the dissertation research, present the methodology to be used, and survey the relevant literature. The student's Ph.D. advisor and other dissertation committee members must indicate approval of the dissertation proposal on the "Ph.D. Dissertation Proposal" form. This form can be downloaded from The Graduate College website. A final copy of the dissertation proposal, accompanied by the signed approval form, must be turned in to the doctoral coordinator, who will forward it to the dean of The Graduate College for review and final approval.

## Advancement to Candidacy Comprehensive Examination

After students have completed the core courses, research tools, and qualifying electives, they must take and pass a comprehensive examination, the purpose of which is to

1. assess a student's knowledge of the core methodological, analytical, and theoretical techniques and issues in criminal justice and
2. judge their ability to use them to conduct independent research.

To be eligible to take the comprehensive examination, students must have a minimum GPA of 3.5 in all the core course work, including any course work that is transferred from another institution. Three members of the doctoral faculty will be asked by the doctoral coordinator, subject to approval by the other members of the doctoral executive council, to write and grade the examinations each year. All three must minimally hold associate doctoral faculty status, and at least one of the three must be a member of the core doctoral faculty. These examinations will be administered once during the fall and spring terms.

The comprehensive examination will be a written examination, and it will be graded "high pass," "pass," "low pass," or "fail." The examination must be taken on campus, in a location selected by the doctoral coordinator, without access to notes. It will have two parts that must be taken on the same day. The first part will last four hours and will focus on theories of crime causation/criminal justice and recent empirical tests. The second part also will last four hours and will focus on the methodological and analytical techniques commonly used in criminal justice research. The two parts of the comprehensive examination will be separated by a one-hour break. If students do not pass the examination, they may repeat it in a subsequent term. If they fail a second time, they may petition the doctoral executive council for permission to take the examination a third and final time. Students will not be allowed to take the examination more than three times. A student may begin work on the dissertation only after successful completion of the comprehensive examination and after formal approval of a dissertation proposal.

Full-time, traditional students are expected to pass their comprehensive exams by the end of their third year. For non-traditional, part-time students, the three years can be extended on an individual, case-by-case basis. However, extensions will require the approval of the doctoral executive council.

## Recommendation for Advancement to Candidacy

The dissertation committee recommends the applicant for Advancement to Candidacy after successful completion of the doctoral comprehensive examinations. Students must submit an official "Application for Advancement to Candidacy" form, which can be downloaded from The Graduate College website. The results of the doctoral comprehensive examination and the completed Application for Advancement to Candidacy form must be filed in of The Graduate College before the dean of The Graduate College gives final approval to candidacy. The doctoral

coordinator is responsible for submitting these forms to The Graduate College.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must present a systematic inquiry into a relevant research question, be informed by prior research, and add to the body of knowledge in the field. In most cases, the research will be quantitative in nature, although qualitative or legal research may be utilized in some cases. It is expected that the dissertation will provide the content for one or more publishable articles in academic journals.

Students are required to complete the following dissertation requirements:

1. The student will complete the dissertation, which must be an original contribution to scholarship and the result of independent research in a significant area of criminal justice. The student is expected to write the dissertation and orally defend it in an announced public presentation within three years of the official date of being advanced to candidacy. Questions posed to the student are initially limited to the dissertation committee membership. However, at the discretion of the presiding chair and when time permits, questions will also be solicited from the attending public audience. The approval of the dissertation requires the approval of the dissertation advisor and the approval of a majority of the other members of the committee. A written notice of the dissertation committee's approval will be forwarded to the doctoral executive council and then to the graduate dean.
2. If the dissertation committee decides not to approve the candidate's dissertation, the dissertation advisor will prepare a written response to the doctoral executive council, accounting for the decision and outlining the steps required for approval. These steps will also be communicated to the candidate.
3. The student will submit the final, approved dissertation to The Graduate College in the prescribed format.
4. The doctoral executive council will conduct a final review of the course work and recommendation from the student's dissertation committee before making a recommendation to the graduate dean that the student be awarded the doctor of philosophy degree with a major in criminal justice. The graduate dean will certify that the student has met all of the requirements and can be awarded the degree.

## Dissertation Enrollment Requirements

After being admitted to candidacy, students must be continuously enrolled for dissertation hours each term until the defense of their dissertation. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must complete a minimum of 12 semester hours of dissertation research and writing credit.

## Dissertation Time Limit

It is expected that the dissertation will, in most cases, be completed in two terms of concentrated effort and in no more than six terms. Students must appeal to the doctoral executive council for an extension beyond six



terms. The student must pass an oral defense of their dissertation before final completion of the doctoral program.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Committee

The dissertation committee is responsible for administering the doctoral comprehensive examination and will oversee the research progress of a doctoral student and the writing of the student's dissertation. The committee will consist of at least four members, including the student's Ph.D. advisor, two additional members of the doctoral faculty and at least one external member from outside the School or the University. The student's Ph.D. advisor will chair the committee and will normally be from the major department. The student, doctoral coordinator, school chair, and the dean of The Graduate College will approve the composition of the dissertation committee. The student is responsible for obtaining committee members' signatures on the "Dissertation/Research Advisor Assignment form" and the "Dissertation Committee Request form," which can be downloaded from The Graduate College website.

## Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation committee chair, the doctoral coordinator, the school chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the dissertation defense. The "Ph.D. Research Advisor/Committee Member Change Request form" may be downloaded from The Graduate College website.

## Dissertation Defense

The dissertation defense may not be scheduled until all other academic and program requirements have been fulfilled. A complete draft of the dissertation must be given to the members of the dissertation committee at least 65 days before the date of commencement during the term in which the student intends to graduate. After committee members have reviewed the draft with the student and provided comments, the student, in consultation with the dissertation advisor, will incorporate the recommended changes into a second draft of the dissertation. When each committee member is satisfied that the draft dissertation is defensible, the dissertation defense may be scheduled.

The student is expected to orally defend the dissertation in an announced public presentation within three years of the official date of being advanced to candidacy. Questions posed to the student are initially limited to the dissertation committee membership. However, at the discretion of the presiding chair and when time permits, questions will also be solicited from the attending public audience. The approval of the dissertation requires the approval of the dissertation advisor and the approval of a majority of the other members of the committee. A written notice of the dissertation committee's approval will be forwarded to the doctoral executive council, and then to the dean of The Graduate College. Specific information on the examination procedure can be found in the School of Criminal Justice Ph.D. Handbook or obtained from the doctoral coordinator.

## Approval and Submission of the Dissertation

Following approval of the dissertation by the members of the dissertation committee, the student must submit one copy of the dissertation and a signed Thesis/Dissertation Committee Approval form to the office of The Graduate College for final approval. Specific guidelines for approval and submission of the dissertation can be obtained from The Graduate College.

Doctoral level courses in Criminal Justice: CJ

## Courses Offered

### Criminal Justice (CJ)

#### CJ 7199. Dissertation.

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CJ 7210. Proseminar.

A course designed to introduce students to the department and ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Prerequisite: first-year criminal justice doctoral students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CJ 7299. Dissertation.

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CJ 7301. Instructional Assistant Supervision.

This course prepares doctoral students employed as research or teaching assistants to perform effectively in diverse instructional settings. The course provides for regular and planned opportunities for continuing evaluation of students. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CJ 7310. Philosophy of Law, Justice, and Social Control.

A current, thorough, and comprehensive review of the criminal justice system focused on how the system functions, and its current needs and future trends. Students submit extensive critiques and participate in panel discussions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7311. Advanced Criminological Theory.**

An overview of the major criminological paradigms is presented focusing on the causes of crime and deviant behavior. The course includes a discussion of criminological theories from a philosophy of science perspective focusing on such issues as theory construction, theoretical integration, and the formal evaluation of theory and policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7312. Criminal Justice Ethics, Administration, and Public Policy.**

This course addresses the role of ethics in criminal justice organizations and policymaking. Topics include the moral philosophy of criminal justice, the role of natural and constitutional law, codes of ethics and ethical review systems, and ethical decision-making by criminal justice professionals with attention to training issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7313. Race and Ethnicity in Crime and Criminal Justice.**

An exploration of how issues related to racial and ethnic minorities and criminal behaviors impact criminal justice reactions. Topics include racial disparities related to law enforcement and sentencing, and policy implications related to policing, probation, pre-sentencing and post-release issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7320. Quantitative Research Methods.**

A course that demonstrates the practical aspects of conducting criminal justice research that uses quantitative methodologies and design. Topics include the philosophy of science; research ethics; methodological designs in establishing causation; nonexperimental/descriptive research; sampling techniques; secondary data sources and data gathering techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7321. Linear Regression for Criminal Justice Research.**

Instruction on the use of advanced linear modeling techniques in criminal justice research is addressed. After completing this course, students should be able to evaluate quantitative research articles in the major criminal justice journals and be prepared to complete a major quantitative research project of their own

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7322. Advanced Research for Planning and Evaluation.**

An introduction to evaluation and research design methodologies, assessment techniques including modeling and case studies, agency management issues, and on-going policy implications. Course gives students an understanding of the principles and techniques commonly used to evaluate the effectiveness and efficiency of criminal justice interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7330. Qualitative Research Methods.**

A discussion of the methods and techniques used for achieving interpretable qualitative results in social research. Topics covered include ethnography, focus groups, in-depth interviewing and case studies. Students will be trained in inductive reasoning and coordinating qualitative with quantitative methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7331. Law and Behavioral Science.**

A review of the issues addressed in the application of the behavioral sciences to the criminal law system. Topics include criminal sanctions and diminished responsibility, civil commitment, victimology, psychology in the courtroom, the role of media, drugs, and alcohol to violence, and how the justice system reacts to violent offenders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7332. Law and Public Policy.**

An examination of the intersections between law and public policy, its effect on criminal justice administration, its role in a free society and the function of law as a tool of social change. Topics include affirmative action, race, gender, privacy rights, and the process of criminalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7333. Legal and Legislative Research.**

This course presents the methods of research used in the legal system. Students learn to locate and interpret constitutional, statutory and case law, use secondary sources such as scholarly legal treatises, and apply research techniques using both print and electronic sources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7334. Organizational Theory.**

A critical examination of organizational theories with applications to criminal justice where students analyze the developmental state of organizational theory, including historical derivations and the implications of various theoretical paradigms for understanding the functional quality of criminal justice organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7335. Criminal Justice Leadership and Management.**

A course focused on identifying problems and solutions in criminal justice management. The case study method and current literature provide a mixture of practical and educational experiences on how leadership styles, human resources, and the organizational environment impact management decisions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7336. Survey Research Methods for Criminal Justice.**

This course addresses the procedures and techniques used to create social surveys including question formulation, metrics, and question scaling. Students learn how to prepare face-to-face, telephone, and mail surveys, and are trained in sampling procedures related to survey administration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7337. Comparative Criminal Justice Systems, Philosophies, and Public Policy.**

A comprehensive study of law, including common, Roman, socialist, and religion-based, including a critical assessment of the major organizational, administrative, and philosophical principles governing the operation of criminal justice systems worldwide, with special attention to international criminal law and human rights

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7350A. Forecasting, Trend Analysis, and Data Interpretation.**

A review of quantitative approaches to public policy analysis, the diverse conceptions of the goals and objectives that should be served by policy, and the appropriate role of the policy analyst. Policy consequences are traced to indirect and subtle incentives and disincentives

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350B. Academic Scholarship and Communication.**

A course on conducting academic research, interpreting results and how to prepare manuscripts for publication in refereed journals. Included is a survey of the audiences, topical focus, and submission requirements of the major criminal justice, criminology, and law publications, along with specialized knowledge on achieving success in the scholarship environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350C. Qualitative Data Collection, Coding and Analysis.**

This course takes a structured approach to understanding and implementing the various information collection methods used in qualitative research, including formatting the information for coding, coding schemes, and information interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350D. Ethnography of Criminal Justice.**

A course on the procedures and techniques required to conduct ethnography, fieldwork, in Criminal Justice. Students examine the culture, subculture, and groups within specific components of the criminal justice system in order to develop a deep ethnographic description. Prerequisite: CJ 7330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350E. Discrete Multivariate Models.**

This course focuses on regression models for discrete outcome variables, sometimes called limited or categorical dependent variables. Topics include maximum likelihood estimation, binary and multinomial logistic models and negative binomial models. Prerequisite: CJ 7321 or its equivalent or approval/permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350F. Environmental Criminology.**

Crime distributes unevenly in space/time. As such, the course examines such questions as (1) What places are dangerous? (2) Why do we study specific crime types? (3) Where do crime types concentrate? (4) Where do offenders go in their normal activities? (5) What are the temporal patterns for crime? Prerequisite: CJ 7311 or its equivalent or approval/permission of both the instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350G. Seminar in Macro Criminology.**

This course has a macro focus, examining criminological theory and research that takes cities, geographical regions, states, and nations as the units of comparison. The importance and relevance of macro criminology for understanding the causes of crime and key criminal justice issues, such as police resources, are explored in depth. Prerequisite: CJ 7311 or its equivalent or permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350I. Introduction to Structural Equation Modeling.**

The course provides an introduction to structural equation modeling, which is sometimes called mean and covariance structure analysis or latent variable analysis. Topics include recursive and non-recursive models, path analysis, measurement models, and factor analysis. Prerequisite: CJ 7321 or its equivalent or approval/permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350J. Advanced Methodological Paradigms in Criminal Justice.**

This course examines the assumptions, foundations, and implications of the methodological paradigms used in criminal justice research. The dominant paradigms are closely examined and alternatives are explored. Prerequisites: CJ 7311, CJ 7320, CJ 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350K. Criminal Justice Forecasting and Policy Analysis.**

This course examines the inputs and outputs of criminal justice programs. It covers forecasting methods using statistical bootstrapping techniques including line fitting methods, moving averages, cohort propagation matrixes, and systems simulations. Prerequisites: Graduate statistics and a working knowledge of Excel and SPSS

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350L. Sex Offenders: Theory, Research & Policy.**

This course will focus on application of theory to explain sexual offenses, research design issues related to researching this salient population of offenders (e.g., ethical issues, gaining IRB approval, research design limitations, social desirability problems in self-report data, and examining available data sources), and examining policy related issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350M. Applied Statistics and Quantitative Data Analysis.**

This is a course in statistics and data analysis for the purposes of original quantitative research. Topics include descriptive statistical inference for single and multivariable analysis, and principles underlying the techniques. This course makes extensive use of statistics software via command-line interface. No more than elementary algebra is assumed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 7360. Independent Study.**

Students will work closely with a particular doctoral faculty member and develop in-depth knowledge in a specific topic area of criminal justice. Topics vary according to a student's program needs. Repeatable once for credit with different emphasis. Prerequisite: Approval of the Instructor and the Doctoral Coordinator in Criminal Justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7399. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7599. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7699. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7999. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science in Criminal Justice (M.S.C.J.), Major in Criminal Justice Major Program

The School of Criminal Justice offers a master of science in criminal justice (M.S.C.J.) degree. The curriculum provides for the development

of skills in criminal justice program planning, implementation, and evaluation to ensure a meaningful contribution to this important area of community and human services.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cjm.html> (<http://www.gradcollege.txstate.edu/cjm.html>).

## Degree Requirements

The M.S.C.J. degree provides a 36-hour program with thesis and non-thesis options. Candidates for the M.S.C.J. degree who choose the non-thesis option will be required to complete a professional quality paper as a component of the degree program. A committee composed of three graduate faculty members must approve this paper.

## Course Work Requirements

### Thesis Option

CJ 5310	Administration of Justice	3
CJ 5315	Advanced Research Methods in Criminal Justice	3
CJ 5321	Current Legal Issues in Criminal Justice	3
CJ 5325	Statistics for Criminal Justice	3
CJ 5330	Management Principles in Criminal Justice	3
CJ 5335	Advanced Crime Theory	3

**Approved Electives**<sup>1</sup> 12

**Thesis** 6

Choose a minimum of 6 hours

CJ 5199B	Thesis	
CJ 5299B	Thesis	
CJ 5399A	Thesis	
CJ 5399B	Thesis	
CJ 5599B	Thesis	
CJ 5999B	Thesis	

Total Hours 36

### Non-thesis Option

CJ 5310	Administration of Justice	3
CJ 5315	Advanced Research Methods in Criminal Justice	3
CJ 5321	Current Legal Issues in Criminal Justice	3
CJ 5325	Statistics for Criminal Justice	3
CJ 5330	Management Principles in Criminal Justice	3
CJ 5335	Advanced Crime Theory	3
CJ 5370	Professional Paper	3

**Approved Electives**<sup>1</sup> 15

Total Hours 36

### Thesis Option with Minor

CJ 5310	Administration of Justice	3
CJ 5315	Advanced Research Methods in Criminal Justice	3
CJ 5321	Current Legal Issues in Criminal Justice	3
CJ 5325	Statistics for Criminal Justice	3
CJ 5330	Management Principles in Criminal Justice	3
CJ 5335	Advanced Crime Theory	3



<b>Approved Electives</b> <sup>1</sup>	6
<b>Minor in Cognate</b> <sup>2</sup>	6
<b>Thesis</b>	6
Choose a minimum of 6 hours	
CJ 5199B Thesis	
CJ 5299B Thesis	
CJ 5399A Thesis	
CJ 5399B Thesis	
CJ 5599B Thesis	
CJ 5999B Thesis	
<b>Total Hours</b>	<b>36</b>

### Non-thesis Option with Minor

CJ 5310 Administration of Justice	3
CJ 5315 Advanced Research Methods in Criminal Justice	3
CJ 5321 Current Legal Issues in Criminal Justice	3
CJ 5325 Statistics for Criminal Justice	3
CJ 5330 Management Principles in Criminal Justice	3
CJ 5335 Advanced Crime Theory	3
CJ 5370 Professional Paper	3
<b>Approved Electives</b> <sup>1</sup>	<b>9</b>
<b>Minor in Cognate</b> <sup>2</sup>	<b>6</b>
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> Electives to be chosen in consultation with the graduate advisor.

<sup>2</sup> As the requirements for minors vary among departments, specific requirements for completing the minor should be discussed with the appropriate graduate advisor.

### Comprehensive Examination

All students must pass an oral comprehensive examination. The purpose of this examination is to provide a structured situation in which the candidate can demonstrate proficiency in various areas of study. A student must see the graduate advisor for a detailed description of the comprehensive examination procedures.

### Additional Course Requirements

Any student accepted into the M.S.C.J. program may be required to take undergraduate course work in criminal justice as a prerequisite to graduate course work.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

### Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature

(if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

### Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

### Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

### Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

### Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.



The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) *or* PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Criminal Justice: CJ

## Courses Offered

### **CJ 5101. Graduate Assistant Supervision.**

Prepares graduate student teaching and instructional assistants to perform effectively in diverse instructional settings and in their assigned instructional support roles. The course provides for regular and planned opportunities for continuing evaluation of instructional and assistive responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### **CJ 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### **CJ 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### **CJ 5300. Foundation Studies in Criminal Justice.**

This course is designed for students who do not have a sufficient background in the foundations of criminal justice studies. Coursework will vary depending on the student's prior academic history. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

### **CJ 5310. Administration of Justice.**

Introduction to the study of crime; explanations of criminal behavior; typologies of criminal behavior; the criminal justice system; and social reaction to crime and the criminal justice system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5311. Administrative Law in Criminal Justice.**

Legal principles and doctrines applicable to state and federal criminal justice agencies delegated quasi-legislative and quasi-judicial authority by legislatures are studied and evaluated in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5315. Advanced Research Methods in Criminal Justice.**

The study of scientific research methods as used in the criminal justice system to include a review and critique of research on crime causation, law enforcement, courts, and corrections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5320. History and Philosophy of Justice.**

An exploration of historical approaches to social control of nonconforming behavior. The principal contributions of architects and theorists of systems of social justice are examined with emphasis on major Western European schools of thought. Special emphasis given to the development of the scientific method and its role in the contemporary system of justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5321. Current Legal Issues in Criminal Justice.**

Case law and legislation, both state and federal, which have contemporary impact on practices and policies of criminal justice agencies will be examined in this course. Topics may vary to include such matters as civil rights liability, substance abuse and the law, juvenile crime, organized crime, tactics of enforcement, unionization, and other legal issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5322. Police in Society.**

This course provides an in-depth assessment of policing and the various types of community crime control. Core topics include the history of police, organizational and individual police discretion, police culture, use of force, minorities and the police, community oriented policing, and police problem-solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### **CJ 5323. Special Operation Units.**

A course designed to acquaint students with basic principles of Special Operation Units (SOUs) within law enforcement, including the necessity for such units in the changing nature of policing communities. The principles of crisis management, the development of SOUs, selection/training/operationalizing of personnel and other strategic planning issues are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5324. Investigations.**

This course explores issues related to investigations. Topics covered include the history and state of investigations, investigative theory, interviewing, interrogation, polygraph, geographic profiling, serial crimes, and investigative failures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5325. Statistics for Criminal Justice.**

The study of basic and advanced descriptive and inferential statistics, with an emphasis on applications in the criminal justice system will be taught. Focus will be given to various multivariate statistical procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5330. Management Principles in Criminal Justice.**

The study of behavior in complex bureaucratic or administrative organizations with an emphasis on organizational behavior, group processes, and the managerial function. Concepts and practices of managing criminal justice agencies within the United States will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5335. Advanced Crime Theory.**

This course will develop and apply analytical skills surrounding a wide range of theoretical concepts, assumptions, propositions, and variables aimed at explaining crime-related outcomes. In the process, students will learn how social scientists empirically (i.e., quantitatively and qualitatively) access theory and how theory influences public policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5340. Personnel Practices in Criminal Justice.**

The study of personnel decisionmaking within the criminal justice agency. Topics emphasized will include recruitment and selection, promotion, training, performance evaluation, and human resource allocation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5350. Current Issues in Criminal Justice.**

An in-depth presentation and discussion of vital contemporary issues in criminal justice, including research, process, procedure, and substance. General issues addressed remain constant and specific emphasis will vary depending on changes in contemporary issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5355. Intelligence Gathering and Operational Issues As Applied to Terrorism and Counterterrorism Operation.**

This course provides an overview of the importance of intelligence gathering in the global and domestic war of terrorism, and critically examines issues involved with the gathering of intelligence, techniques for the gathering of intelligence, methods of collecting, collating, analyzing and disseminating intelligence, and a review of current terrorist threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5360. Independent Studies in Criminal Justice.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Criminal Justice. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5370. Professional Paper.**

Students in the non-thesis option will complete their professional paper while enrolled in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5380A. Ethics and the Criminal Justice System.**

This special topics course will explore ethical issues that are faced by criminal justice professionals, basic ethical systems, and applications to dilemmas of criminal justice professionals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380C. Drugs in Society.**

This special topics course will explore issues related to the "War on Drugs." Topics covered include theories of addiction, legal and philosophical issues of government response to drug use, and treatment strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380F. Police Problem-Solving Practicum.**

This course applies contemporary police problem-solving tools and techniques (including SARA, COMPSTAT, crime mapping, intelligence led policing and computer enhanced problem solving) to real world problems with practicum problems derived from situations commonly facing police practitioners such as common law enforcement "problems" such as noise abatement, property offenses and traffic violations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380H. Police Problem Solving Methodologies.**

This course addresses police problem solving methodologies. The course covers the history, state, and theory of police problem solving. Emphasis is placed on using problem solving methodologies to address real issues facing the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380I. Race, Class, and Crime.**

This course addresses issues related to racial/ethnic minorities, socioeconomic status, crime trends, perceptions of crime and criminal behaviors. The social/historical constructions of race and class are covered as well as their intersectionality within the criminal justice system. Topics include racial/ethnic and socioeconomic disparities in offending, victimization, law enforcement and sentencing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380J. Sex Offender and the Criminal Justice System.**

This course explores sex offenders and the criminal justice system and the issues faced by criminal justice professionals. Recent trends in assessment tools, treatment approaches, and legal responses to sex offenders are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380L. Geospatial Intelligence and Geographic Profiling.**

This course addresses the use of geospatial intelligence and geographic profiling in the military and intelligence environments. The course covers the theory, concepts, methods, and analysis of human geographic information. Emphasis is placed on understanding how geospatial knowledge can inform decision making and action plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380M. Crime Analysis.**

This course teaches students step by step how to evaluate and synthesize local crime data and present it to others. It helps students identify local crime trends and cycles, develop usable crime maps, and to think of practical local police responses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380N. Applied Research Practicum.**

This course provides structured assistance to students who are preparing for significant independent research projects (i.e. Thesis, Professional Paper) by exposing them to the organizational tools, processes and techniques used by productive scholars. Ideally, students should expect to complete a viable research prospectus by the end of the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Credit/No Credit

**CJ 5380P. Quantitative Data Analysis.**

This course provides an introduction to quantitative data analysis. For the purposes of research and exploratory data analysis, topics include data construction and cleaning, variable coding, descriptive and inferential statistics, summary measures, and visual presentations of data. This course makes extensive use of statistical software

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 5399A. Thesis.**

This course represents a student's initial thesis enrollment. Credit is not awarded until student has completed the thesis in Criminal Justice 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Criminal Justice

CJ 5310	Administration of Justice	3
Approved electives		6
Total Hours		9

## Certificate in Intelligence Analysis

### Criminal Justice Course Work

CJ 5335	Advanced Crime Theory	3
or CJ 5355	Intelligence Gathering and Operational Issues As Applied to Terrorism and Counterterrorism Operation	

### Computer Information Systems Course Work

CIS 5364	Data Warehousing and Mining	3
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### History Course Work

Choose 1 course		
HIST 5324B	Class and Society in Latin America	
HIST 5381	Chinese Communism	
HIST 5385	Modern Middle Eastern History	

### Geographic Course Work

Choose 1 course		
CJ 5380L	Geospatial Intelligence and Geographic Profiling	
GEO 5418	Geographic Information Systems I	

### Independent Studies Course Work

CJ 5360	Independent Studies in Criminal Justice	3
Total Hours		15

### Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## School of Family and Consumer Sciences

Family and Consumer Sciences Building Room 101

T: 512.245.2155 F: 512.245.3829

<http://www.fcs.txstate.edu/>

## Mission

Family and consumer sciences — an inter-related applied discipline — enhances the quality of individual and family life, educates a diverse

student population for professions that serve the public and private sectors, and prepares them for participation in a global society through effective teaching, scholarship, and service.

## Vision

To be recognized as a premier school that engages in important scholarship and prepares the most qualified graduates in Texas and the nation from master's programs in family and child studies, human nutrition, and merchandising and consumer studies.

## Student Fitness and Performance

### Program Standards

Students enrolled in all academic programs in the School of Family and Consumer Sciences must maintain high scholastic standards and develop a mastery of the knowledge and methods of their respective discipline. Students are expected to demonstrate emotional and mental fitness in their interactions with others, use skills and methods that are generally accepted by others in the profession, and conform to the code of ethics of their respective discipline and the university's honor code. A student's acceptance in any program does not guarantee the student's fitness to remain in that program. The faculty is responsible for verifying that only those students who continue to meet program standards are allowed to continue in any program.

### Evaluation of Student Fitness and Performance

Members of the faculty, using their professional judgments, evaluate student fitness and performance continuously. The criteria used by the faculty to make such judgments include instructors' observations of student performance in class or in activities related to courses, evaluations of student performance on theses and practica, site supervisors' evaluations of student performance in practica, and the codes of ethics noted above. Students who are not making satisfactory progress or who are not meeting program standards should consider withdrawing from the program.

In this context, the term "satisfactory progress" refers to an academic judgment made regarding the student's fitness and performance. It is a judgment that the student has failed to meet program standards rather than a judgment made on the basis of the student's violation of valid rules of conduct. Disciplinary matters are referred to Student Justice.

### Student Review Process

If a faculty member believes that a student is not making satisfactory progress or meeting program standards, they should discuss the situation with the student. If the faculty member believes that the student's performance cannot improve to acceptable standards, the faculty member should refer the student to the Program Standards Committee of the appropriate department. The Program Standards Committee consists of three faculty members appointed by the department chair in consultation with the department's senior faculty.

The Committee will notify the student of the reasons that they are not making satisfactory progress or meeting program standards and will give the student an opportunity to meet with the Committee to respond and to present information and witnesses to the committee. The Committee will also meet with the faculty member who referred the student to the Committee. After considering the matter, and within ten working days of meeting with the student, the Committee will report to the student and the department chair. The Committee will recommend that the student either be allowed to remain in the program or be removed from the program. The Committee may make other recommendations, such

as placing restrictions or conditions on the student's continuing in the program. Within ten working days of receiving the Committee's recommendations, the student will notify the department chair of the student's acceptance or rejection of the Committee's recommendation.

Within ten working days of receiving the Committee's recommendation, the chair will make a decision as to the student's continued presence in the program. Before making the decision, the chair will give the student an opportunity to meet with the chair and to offer information on the student's behalf. However, the chair need not meet with the student before making a decision if the chair has given the student a reasonable opportunity to meet, and the student has either failed or refused to meet. The chair will notify the student of the decision.

If the student is dissatisfied with the chair's decision, he or she may appeal to the dean of the appropriate college. However, in order for an appeal to be considered, the student must submit a written notice for an appeal to the chair and to the dean within ten working days of receiving the chair's decision. The dean will consider the matter based on information compiled by the chair and notify the student of his or her decision within ten working days of the dean's receipt of the appeal from the chair. The dean may meet with the student and give the student an opportunity to address the issues. The dean's decision is final.

## Master of Science (M.S.)

- Major in Family and Child Studies (p. 602)
- Major in Human Nutrition (p. 607)
- Major in Merchandising and Consumer Studies (p. 611)

## Certificate

- Dietetic Internship (p. 614)

## Master of Science (M.S.), Major in Family and Child Studies

### Major Program

The graduate program provides students with the knowledge and expertise to attain professional positions and advancement opportunities in programs serving families and children.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/fcs.html>.

## Program Administration and Evaluation Track

This track provides a thesis and non-thesis option (37 total hours required). Both the thesis and the non-thesis options require the completion of a common core of 19 semester credit hours and a 3-hour practicum in family and child studies. Students choosing the thesis option are required to complete a 6-hour thesis requirement. The non-thesis option requires the completion of an additional 3-hour practicum. Thesis students will have 9 semester credit hours and non-thesis students will have 12 semester credit hours of prescribed elective courses chosen by the student to create a concentration.



## Course Work Requirements

### Thesis Option

#### Core Curriculum

FCD 5100	Introduction to Family and Child Studies	1
FCD 5341	Advanced Child Development	3
FCD 5350	Research Design and Methods in Family and Child Studies	3
FCD 5351	Advanced Theory in Family and Child Studies	3
FCD 5352	Seminar: Issues in Family and Child Studies	3
FCD 5353	Program Evaluation in Family and Child Studies	3
FCD 5356	Advanced Program Administration	3

#### Practicum in Family Studies

FCD 5358	Practicum in Family and Child Studies I	3
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#### Thesis Course Work

Choose a minimum 6 hours		6
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FCD 5199B	Thesis	
FCD 5299B	Thesis	
FCD 5399A	Thesis	
FCD 5399B	Thesis	
FCD 5599B	Thesis	
FCD 5999B	Thesis	

#### Graduate Advisor Approved Electives

Choose 9 hours from the list below		9
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Total Hours		37
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### Non-thesis Option

#### Core Curriculum

FCD 5100	Introduction to Family and Child Studies	1
FCD 5341	Advanced Child Development	3
FCD 5350	Research Design and Methods in Family and Child Studies	3
FCD 5351	Advanced Theory in Family and Child Studies	3
FCD 5352	Seminar: Issues in Family and Child Studies	3
FCD 5353	Program Evaluation in Family and Child Studies	3
FCD 5356	Advanced Program Administration	3

#### Practicum in Family Studies

FCD 5358	Practicum in Family and Child Studies I	3
FCD 5359	Practicum in Family and Child Studies II	3

#### Graduate Advisor-approved Electives

Choose 12 hours from the list below		12
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Total Hours		37
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### Electives to Program Administration and Evaluation Track

COUN 5316	Counseling Diverse Populations	3
COUN 5340	Loss and Grief Recovery Counseling	3
COUN 5368	Developmental Issues in Counseling Children, Adolescents, and Adults	3
COUN 5369	Child and Adolescent Counseling Methods	3
ADED 5321	Adult Learning and Development	3
ADED 5344	Multicultural Perspectives in Postsecondary Education and Adult Education	3
DE 5324	Teaching Learning Strategies and Critical Thinking	3
FCD 5343	Hospitalized Child: Child Life Specialist	3
FCD 5344	Infant and Early Childhood Mental Health	3

FCD 5355	Advanced Independent Study	3
FCD 5357	Comparative Studies in Child Development	3
PA 5330	Public Personnel Administration	3
PSY 5320	Principles of Measurement and Statistics	3
PA 5332	Management Practices in Public Personnel Administration	3
PA 5370	Public Management and Ethics	3
PA 5300	Introduction to Public Policy and Administration	3
PSY 5342	Professional Ethics and Standards of Practice	3
PSY 5370	Learning, Cognition, and Motivation	3
SOCI 5307	Advanced Statistics for the Social Sciences	3
SOCI 5309	Seminar in Qualitative Research Methods	3
SOCI 5323	Grant Writing for the Social Sciences	3
SOCI 5337	Seminar in the Family	3
SOCI 5370	Seminar in Multi-Cultural Relations	3
SOWK 5308	Human Behavior in Individual and Family Social Environments	3
SOWK 5310	Social Welfare Policy and Services	3
SOWK 5315	Social Work Intervention in Child Abuse & Neglect	3
SPED 5314	Advanced Educational Strategies for Students with Autism	3
SPED 5325	Development Perspectives of the Mildly Disabled	3
SPED 5334	Assessment and Evaluation of Students with Disabilities	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3

## Child Life Specialist Track

This track also provides a thesis and non-thesis option (37 total hours required). Both the thesis and non-thesis options require the completion of a common core of 25 semester credit hours, including the internship. Students choosing the thesis option are required to complete a 6-hour thesis requirement. Thesis students will have 6 semester credit hours of elective courses; non-thesis students will have 12 semester hours of electives.

### Course Work Requirements

#### Thesis Option

##### Core Curriculum

FCD 5100	Introduction to Family and Child Studies	1
FCD 5341	Advanced Child Development	3
FCD 5350	Research Design and Methods in Family and Child Studies	3
FCD 5351	Advanced Theory in Family and Child Studies	3
FCD 5352	Seminar: Issues in Family and Child Studies	3

##### Child Life Specialist Courses

FCD 5343	Hospitalized Child: Child Life Specialist	3
FCD 5345	Advanced Methods in Child Life	3
FCD 5659	Internship in Child Life <sup>1</sup>	6

##### Elective Courses

Choose 6 hours from the list below		6
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##### Thesis Courses

Choose a minimum 6 hours		6
FCD 5199B	Thesis	



FCD 5299B	Thesis	
FCD 5399A	Thesis	
FCD 5399B	Thesis	
FCD 5599B	Thesis	
FCD 5999B	Thesis	
Total Hours		37

<sup>1</sup> The child life internship is a full-time, non-paid internship required by the Child Life Council. It should be completed in the final year of the master's program. Child life internships are extremely competitive in nature and interns are selected by the individual hospitals. Therefore, internships are not guaranteed. Also, due to the competitive nature of internships, it might be necessary to apply to hospitals outside of the Central Texas area.

### Non-thesis Option

#### Core Curriculum

FCD 5100	Introduction to Family and Child Studies	1
FCD 5341	Advanced Child Development	3
FCD 5350	Research Design and Methods in Family and Child Studies	3
FCD 5351	Advanced Theory in Family and Child Studies	3
FCD 5352	Seminar: Issues in Family and Child Studies	3

#### Child Life Specialist Courses

FCD 5343	Hospitalized Child: Child Life Specialist	3
FCD 5345	Advanced Methods in Child Life	3
FCD 5659	Internship in Child Life <sup>1</sup>	6

#### Elective Courses

Choose 12 hours from the list below		12
Total Hours		37

<sup>1</sup> The child life internship is a full-time, non-paid internship required by the Child Life Council. It should be completed in the final year of the master's program. Child life internships are extremely competitive in nature and interns are selected by the individual hospitals. Therefore, internships are not guaranteed. Also, due to the competitive nature of internships, it might be necessary to apply to hospitals outside of the Central Texas area.

### Electives to Child Life Specialist Track

COUN 5316	Counseling Diverse Populations	3
COUN 5340	Loss and Grief Recovery Counseling	3
COUN 5368	Developmental Issues in Counseling Children, Adolescents, and Adults	3
COUN 5369	Child and Adolescent Counseling Methods	3
FCD 5353	Program Evaluation in Family and Child Studies	3
FCD 5356	Advanced Program Administration	3
FCD 5358	Practicum in Family and Child Studies I	3
HA 5300	Healthcare Organization and Delivery	3
SOCI 5337	Seminar in the Family	3
SOCI 5363	Seminar in Medical Sociology	3
SOCI 5370	Seminar in Multi-Cultural Relations	3
SOWK 5308	Human Behavior in Individual and Family Social Environments	3
SOWK 5315	Social Work Intervention in Child Abuse & Neglect	3

## Additional Course Requirements

At the discretion of graduate faculty, leveling courses may be required for applicants with limited academic credentials in family and child studies.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the

thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Family and Child Studies: FCD

## Courses Offered

### Family and Child Development (FCD)

#### FCD 5100. Introduction to Family and Child Studies.

Focus on gaining information and competencies important to graduate study success. Includes academic expectations for graduate students as well as information related to the Family and Child Studies graduate program. Required for Family and Child Studies majors. Graded on a credit (CR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### FCD 5101. Graduate Assistant Development.

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### FCD 5199B. Thesis.

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### FCD 5299B. Thesis.

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### FCD 5340. Advanced Cultural Diversity of Families.

Survey study of family diversity through selected family science research methods and topics including family structure and function, family life patterns, multicultural groups, agents of enculturation, and family life education. Prerequisite: Graduate Standing. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

#### FCD 5341. Advanced Child Development.

Focus on developmental processes and influences from conception through early childhood period. Includes interactive relationship of biological and environmental factors in total development of the child. Child observations required. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### FCD 5342. Early Childhood Intervention.

This course provides an interdisciplinary introduction, study, and application of information to the professional discipline of early childhood intervention and the early intervention specialist (EIS). Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### FCD 5343. Hospitalized Child: Child Life Specialist.

This course enhances students' ability to utilize theoretical and applied technologies when interacting with children and families in hospital settings. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5344. Infant and Early Childhood Mental Health.**

This course provides an interdisciplinary understanding of the social and emotional development of infants and young children within the context of the family. Focus will be on the role of the infant mental health specialist in strengthening the development of young children and the parent-child relationship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5345. Advanced Methods in Child Life.**

This course focuses on the applied techniques and methodologies essential to the child life profession. In addition, this course offers guided experience and opportunities for stepping into the child life profession, ongoing career development and self care

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5346. Foundations of Family and Child Studies.**

This course will cover the foundations of family and child studies. Topics will include child development, principles of guidance, and family relationships. Prerequisite: Graduate standing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**FCD 5347. Grief and Bereavement in Children, Adolescents, and Parents.**

This course includes a historical review of theoretical models on grief and bereavement, influences on grief and bereavement responses, and current perspectives on helping the bereaved cope. Implications for child life specialists will be analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5348. Pain and Anxiety Management for Children.**

This course provides child life students with theoretical foundations and applied non-pharmacological strategies for assessing children's pain and anxiety and assisting them with alleviation during painful healthcare and other life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5350. Research Design and Methods in Family and Child Studies.**

Evaluation of research concepts, methods, and strategies in family and child studies. Topics include the nature of scientific research, sampling, measurement, data collection, types of socio-behavioral research, data analysis, and evaluation of research reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5351. Advanced Theory in Family and Child Studies.**

A critical evaluation of theoretical concepts and current research in family and child studies. Emphasis on recent trends in family and child theories

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5352. Seminar: Issues in Family and Child Studies.**

Seminar to examine current issues in family and child studies. Emphasis on current research, theories, and applications. Also includes orientation to the conceptual and methodological perspectives of multi-disciplinary study in the field of family and child studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5353. Program Evaluation in Family and Child Studies.**

Study of the diversity and effectiveness of family and child services programs at the federal, state, and community levels. Program evaluation strategies and measures, fiscal management, and grant writing will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5355. Advanced Independent Study.**

Individual work on problems related to student's primary area of specialization. Work may consist of empirical research or of critical reviews and integration of existing literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5356. Advanced Program Administration.**

Study of family and child services systems. Management theory and strategies, strategic planning, program development and implementation, personnel management, and public policy are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5357. Comparative Studies in Child Development.**

The study of cultural values and beliefs regarding children and the reflection of these in childrearing and early care and education programs and practices in the U.S. and selected countries. The interactive influence of culture and national policies will also be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5358. Practicum in Family and Child Studies I.**

Structured practical experience in family and child studies in a private or public setting. Supervision provided by a member of the graduate faculty and a designated individual at the work site. Focus will be on experiential learning. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5359. Practicum in Family and Child Studies II.**

Continued practical experience in family and child studies at a private or public setting with supervision provided by a member of the graduate faculty and a designated individual at the work site. A research report will be integrated with practical application. Graded on a credit (CR), no credit (F) basis. Prerequisite: FCD 5358

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5399A. Thesis.**

This course represents a student's initial thesis enrollment. Focus is on identification of thesis topic, review of literature, and research design. No thesis credit is awarded until student has completed the thesis in FCD 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**FCD 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**FCD 5659. Internship in Child Life.**

Structured hospital experience for individuals who plan to pursue a career in child life. Provides opportunity to work in a hospital setting under the direction of a certified child life specialist. Prerequisite: 30 hours of graduate coursework or approval of graduate advisor. Graded on a credit (CR), no credit (F) basis  
**6 Credit Hours. 0 Lecture Contact Hours. 32 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**FCD 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Human Nutrition

### Major Program

The graduate program in human nutrition promotes the study of human nutrition, food science, and biotechnology with emphasis on promoting health and preventing disease. Graduate instruction is based on a variety of learning strategies, including lecture, seminar-style discussion, participation in research, and practical laboratory work using state of the art equipment and techniques. Graduates achieve the technical skills, scientific knowledge, and local, national, and global perspectives to integrate the fields of nutrition, food science and food biotechnology to address human health concerns of the 21st century.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/hmnt.html>.

### Additional Course Requirements for Special Admission Considerations

Applicants with limited academic preparation in nutrition and foods can be conditionally admitted. Foundation courses will be required to provide fundamental knowledge for the discipline. These courses will not apply toward completion of the master's degree and include, but may not be limited to:

NUTR 5300	Foundation Studies in Human Nutrition (Food Science)	3
NUTR 5300	Foundation Studies in Human Nutrition (Biochemical Nutrition)	3
NUTR 5300	Foundation Studies in Human Nutrition ( Nutrition Science)	3

Applicants will not be considered for admission without evidence of completion of the following courses:

- Introductory Biology
- Microbiology
- Anatomy and Physiology
- Two terms of Introductory Chemistry
- At least one Organic Chemistry course
- One course in Biochemistry
- Introductory Nutrition<sup>1</sup>

<sup>1</sup> Effective Spring 2017 students must complete a course in Introductory Nutrition prior to beginning the MS Program.

## Dietetic Internship Concurrent Enrollment

Students enrolled in the M.S. program who are interested in obtaining the registered dietitian (RD) credential are encouraged to apply for admission to the Texas State dietetic internship (DI) after they have completed at least one term. While up to nine hours of courses taken as part of the DI may count towards the M.S. degree, completion of both the M.S. and DI may require more course work than needed to complete the M.S. alone. Students interested in this dual option are required to meet with the graduate coordinator to determine courses required to complete both programs. It is important to note that admission to the M.S. does not guarantee acceptance into the Texas State DI.

## Degree Requirements

The nutritional science concentration prepares students to work in public and private nutrition and health care-related facilities, agencies and advocacy organizations. It also prepares students for doctoral programs in nutrition.

### Thesis Option

#### Core Courses

FCS 5310	Research Methods in FCS	3
NUTR 5304	Advanced Functional Foods and Nutraceuticals	3
NUTR 5305	Seminar in Nutrition and Disease	3
NUTR 5306	Seminar in Nutrition in the Lifespan	3
NUTR 5366	Nutrient Metabolism I	3
NUTR 5367	Nutrient Metabolism II	3

#### Nutritional Science Courses

FCS 5311	Statistics and Data Analysis for Family and Consumer Sciences	3
NUTR 5372	Advances in Nutrition Policy and Ethics	3

Choose 3 hours from the following: 3

NUTR 5302E	Nutrition and Disease	
NUTR 5302F	Nutritional Supplements	
NUTR 5302G	Pediatric Obesity	
NUTR 5302J	Diet Therapy and Pathophysiology	
NUTR 5362	Advanced Medical Nutrition Therapy	



NUTR 5363	Advanced Community Nutrition	
NUTR 5364	The Science of Nutrition and Exercise	
NUTR 5371	Externship in Human Nutrition	
NUTR 5374	Advanced Nutrition and Genetics	
BIO 5426	Immunology	
ESS 5317	Exercise Physiology	
H ED 5315	Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II)	
H ED 5320	Foundation of Public Health	
<b>Thesis Course Work</b>		<b>6</b>
Choose a minimum 6 hours		
NUTR 5199B	Thesis	
NUTR 5299B	Thesis	
NUTR 5399A	Thesis	
NUTR 5399B	Thesis	
NUTR 5599B	Thesis	
NUTR 5999B	Thesis	
Total Hours		<b>33</b>

## Non-thesis Option

### Core Courses

FCS 5310	Research Methods in FCS	3
NUTR 5304	Advanced Functional Foods and Nutraceuticals	3
NUTR 5305	Seminar in Nutrition and Disease	3
NUTR 5306	Seminar in Nutrition in the Lifespan	3
NUTR 5366	Nutrient Metabolism I	3
NUTR 5367	Nutrient Metabolism II	3

### Nutritional Science Prescribed Electives

FCS 5311	Statistics and Data Analysis for Family and Consumer Sciences	3
NUTR 5372	Advances in Nutrition Policy and Ethics	3

Choose 3 hours from the following: 3

NUTR 5302E	Nutrition and Disease	
NUTR 5302F	Nutritional Supplements	
NUTR 5302G	Pediatric Obesity	
NUTR 5302J	Diet Therapy and Pathophysiology	
NUTR 5362	Advanced Medical Nutrition Therapy	
NUTR 5363	Advanced Community Nutrition	
NUTR 5364	The Science of Nutrition and Exercise	
NUTR 5374	Advanced Nutrition and Genetics	
BIO 5426	Immunology	
H ED 5315	Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II)	
H ED 5320	Foundation of Public Health	

### Graduate Advisor-approved Electives

Choose 12 hours		<b>12</b>
Total Hours		<b>39</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis*

or *Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.



## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Human Nutrition: NUTR

## Nutrition and Foods (NUTR)

### NUTR 5101. Graduate Assistant Development.

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### NUTR 5199B. Thesis.

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### NUTR 5299B. Thesis.

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### NUTR 5300. Foundation Studies in Human Nutrition.

This course is designed for students who do not have a sufficient background in the foundations of nutrition and food science to be successful in graduate level courses. Prerequisite: consent of graduate advisor. No graduate credit awarded; may be repeated

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

### NUTR 5302E. Nutrition and Disease.

An advanced study of the ability of various nutrient and non-nutrient compounds found in food to prevent and treat disease. Diseases covered include cancer, diabetes, cardiovascular disease, among others. Prerequisite: graduate standing and permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### NUTR 5302F. Nutritional Supplements.

An advanced study of the efficacy of dietary supplements. Both nutrient and non-nutrient supplement components will be discussed. Clinical trials, epidemiological data and molecular mechanisms of action of dietary supplements will be compared to manufacturer's claimed action. Prerequisite: graduate standing and consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### NUTR 5302G. Pediatric Obesity.

An advanced study of pediatric obesity, including causes, economic and health related consequences, evidence-based treatment and prevention strategies. Prerequisite: graduate standing and consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### NUTR 5302J. Diet Therapy and Pathophysiology.

This course will investigate the use of diet as a treatment for a variety of acute and chronic disease states. Students will also learn to apply the nutrition care process to treat patients/clients with acute and chronic diseases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### NUTR 5303. Nutrition and Food Science Project.

Directs the graduate student to review, analyze and compile current scientific literature pertaining to a specific, advanced topic in nutrition under guidance of faculty. Course includes preparation of a manuscript (review of literature) in publication format. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5304. Advanced Functional Foods and Nutraceuticals.**

Sources and mechanism of action of dietary bioactive compounds in functional foods, nutraceuticals and supplements in the prevention and management of chronic and infectious diseases. The efficacy, safety and regulatory issues governing development and commercialization will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5305. Seminar in Nutrition and Disease.**

An advanced study of a selected topic in nutrition concerning nutrients and functional foods and their role in disease prevention or treatment.

Class topics will enter on clinical trials, epidemiological data and molecular mechanisms of action concerning the ability of nutrients to prevent or treat disease. Repeatable for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5306. Seminar in Nutrition in the Lifespan.**

An advanced study of a selected topic in nutrition and the lifespan from a multidisciplinary perspective, including review of scientific literature in nutrition, physiology, biochemistry, sociology, exercise sports science, epidemiology, endocrinology and genetics. Repeatable for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5350. Research Methods in Nutrition and Food Science.**

Evaluation of research concepts, methods, and strategies used in nutrition and food science research. Topics include the nature of scientific research, sampling, measurement, data collection, types of research methodology, use of data analysis and management software, and evaluation of research reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5355. Advanced Independent Study in Nutrition.**

Individual work with specific guidance from graduate nutrition faculty. Work may include participation in research, professional practice, and/or critical review of the scientific literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5360. Practicum for Dietetic Internship.**

Students observe and engage in the practice of dietetics under the supervision of practitioners in facilities for health care, public health, and food systems. Repeated twice to meet requirements to complete the dietetic internship program. Graded on a credit (CR), no credit (F) basis.

Prerequisites: Admission to Texas State Dietetic Internship

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**NUTR 5361. Advanced Food Systems Administration.**

Techniques and procedures for management, service, and marketing of meals in commercial and noncommercial food service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5362. Advanced Medical Nutrition Therapy.**

Advanced study of medical nutrition therapy with emphasis on application of principles and techniques of nutritional assessment emphasizing current clinical nutrition practices. Current scientific literature will be used extensively to discuss most recent advances in the area of medical nutrition therapy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5363. Advanced Community Nutrition.**

Assessment of the nutritional needs of the community and of programs that serve the needs. Experiences include survey techniques, nutritional education, and management of programs to meet specific nutritional needs through community agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5364. The Science of Nutrition and Exercise.**

An advanced course focusing on the physiological and biochemical impact of nutrient intake on physical performance, health and fitness.

Special emphasis will be placed on the investigation of a variety of dietary supplements, including purported ergogenic aids. The course requires significant reading and interpreting of the scientific literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5365. Analytical Food Science and Molecular Techniques.**

Theory and practical applications of methods for (bio)chemical, microbiological and genetic analysis of foods. Includes: water-activity measurement, texture, calorimetry, spectroscopy, gas liquid chromatography, high performance liquid chromatography, microscopy, bacterial cultivation/identification, electrophoresis, bioluminescence, immunological techniques, gene probes and other emerging technologies. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5366. Nutrient Metabolism I.**

An advanced study of the biochemical and physiological foundations of nutrition and metabolism and its relevance to health and wellness. Scientific literature pertaining to biochemical structure, metabolism and physiological regulation of macronutrients and water-soluble vitamins.

Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5367. Nutrient Metabolism II.**

An advanced study of the biochemical and physiological foundations of nutrition with emphasis on fat-soluble vitamins and minerals. Current scientific information pertaining to structure, metabolism and physiological regulation of these micronutrients. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5368. Food Biotechnology.**

Applications of microbiology, genetic engineering and biotechnology to the production of food and food ingredients. Addresses the use of biotechnology in creation of genetically engineered foods and functional foods from microbes, plants and animals. Ethical and security risks associated with food biotechnology will be debated. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5369. Nutrition and Immune Function.**

This course integrates existing knowledge in several areas - nutrition, food science, metabolism and immunology. Discussion will focus on the effect of dietary components on activation of cells and genes related to immune system and underlying mechanisms of nutritional immunomodulation. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5370. Food and Nutritional Toxicology.**

Basic principles of nutritional and food toxicology. Absorption, metabolism and excretion of xenobiotics, allergenic and toxic constituents in diet. Effect of dietary toxins on nutritional status, mutagenesis, carcinogenesis and disease. Regulation and safety assessment of foods including food additives, environmental contaminants, pesticides and antibiotic residues. Prerequisite: Graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5371. Externship in Human Nutrition.**

Structured practical experience in human nutrition, food science, food biotechnology. Supervision provided by a member of the graduate faculty and a designated individual at the work site. Requires a minimum of 150 hours of supervised experience. Prerequisites: Graduate standing and approval by graduate advisor and faculty supervisor

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5372. Advances in Nutrition Policy and Ethics.**

This course considers the disparate influences on the US food supply, on federal and state nutrition and food-related policies, and ultimately, on individual dietary intake. Potential influences, including current state and federal policies, industry, interest groups, and the media, driven by economics and ethical consideration, will be addressed. Enrollment restricted to students in the MS in Human Nutrition program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5374. Advanced Nutrition and Genetics.**

This course will examine the specific processes in intermediary nutrient metabolism and their genetic regulation. The effects of nutrients on gene expression, cell signaling, cell physiology, and disease processes will also be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5375. Advances in Life Span Nutrition.**

An advanced study of the nutritional requirements throughout the life span involving a multidisciplinary approach including, biochemistry, endocrinology and genetics, and perspectives of human psychological and social development. Prerequisite: consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NUTR 5399A. Thesis.**

Initial thesis enrollment. Focus is on identification of thesis topic, review of literature, research design and preparation of thesis proposal. No thesis credit is awarded until completion of NUTR 5399B. Prerequisite: Graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**NUTR 5399B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**NUTR 5599B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**NUTR 5999B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Merchandising and Consumer Studies

### Major Program

The master of science (M.S.) major in merchandising and consumer studies will educate the next generation of product developers, retail and merchandising managers, as well as consumer studies professionals, who will make pivotal and transformative decisions vital to intelligent economic, social, and environmental resource management. Our goal is to prepare students with competencies that address current and future consumer-related employment needs of Texas. Building on the undergraduate foundation, the master's level curriculum engages students in the analysis, critical thinking, and holistic problem solving needed to respond to the complexity and growth of consumer-centric systems.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mcs.html>.

## Course Work Requirements

### Thesis Option

#### Core Course Work

MCS 5301	Research Methods in Merchandising and Consumer Studies	3
MCS 5330	Merchandising and Consumer Theory and Research	3
MCS 5341	Ethics in Merchandising and Consumption	3
MCS 5342	Sustainable Consumer Economy	3
MCS 5391	Seminar in Merchandising and Consumer Studies	3
PSY 5320	Principles of Measurement and Statistics	3

#### Prescribed Electives

Choose 9 hours from the following: 9

MCS 5302A	Merchandising in the Experience Economy	
MCS 5302B	Merchandising Strategies in Domestic and International Markets	
MCS 5331	Strategic Merchandise Planning	
MCS 5332	Innovation in the Global Market	
MCS 5333	Global Sourcing and Distribution	
MCS 5336	Culture, Society, and Dress	
MCS 5390	Merchandising and Consumer Studies Practicum	

#### Free Electives

Choose 6 hours in consultation with graduate advisor 6

#### Thesis Course Work

Choose a minimum 6 hours 6

MCS 5199B	Thesis	
MCS 5299B	Thesis	
MCS 5399A	Thesis	
MCS 5399B	Thesis	
MCS 5599B	Thesis	
MCS 5999B	Thesis	

Total Hours 39

### Non-thesis Option

#### Core Course Work

MCS 5301	Research Methods in Merchandising and Consumer Studies	3
MCS 5330	Merchandising and Consumer Theory and Research	3
MCS 5341	Ethics in Merchandising and Consumption	3
MCS 5342	Sustainable Consumer Economy	3
MCS 5391	Seminar in Merchandising and Consumer Studies	3
MCS 5398	Directed Study in Merchandising and Consumer Studies	3
PSY 5320	Principles of Measurement and Statistics	3

#### Prescribed Electives

Choose 9 hours from the following: 9

MCS 5302A	Merchandising in the Experience Economy	
MCS 5302B	Merchandising Strategies in Domestic and International Markets	
MCS 5331	Strategic Merchandise Planning	
MCS 5332	Innovation in the Global Market	
MCS 5333	Global Sourcing and Distribution	

MCS 5336	Culture, Society, and Dress	
MCS 5390	Merchandising and Consumer Studies Practicum	

#### Free Electives

Choose 6 hours in consultation with graduate advisor 6

Total Hours 36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress,



a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

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## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Family and Consumer Sciences: FCS

### FCS 5101. Graduate Assistant Development.

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable up to 3 times

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### FCS 5302H. Sustainable Consumer Economy.

This course is a in-depth study of the role of consumption in the development of sustainable systems including the family, natural resources and economics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FCS 5302J. Statistics and Data Analysis for Family and Consumer Sciences.

This is a graduate level course covering statistical techniques commonly used in the field of family and consumer sciences. Topics include descriptive statistics, Chi-Square analysis, analysis of variance and covariance, simple and multiple linear regression, logistic regression, and use of statistical software. Data analysis to support decision-making is emphasized. Restricted to students in one of the graduate FCS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### FCS 5302S. Sustainable Textiles.

This course is an in-depth study of the relationship of fibers, fabrics, finishes and textile products end-uses with a particular focus on their impact on sustainability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FCS 5302X. Policy in Family/Child Studies.

An examination of the policy making process and the significance of national, state, and local policies as they affect the family. Frameworks for analyzing social policy will be used to examine existing government efforts and legislation. Implications for bringing about change in policies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FCS 5305. Sustainable Housing.

This course is an in-depth study of the relationship between housing and sustainability with a particular focus on the role of materials, technology, policy and human factors in fostering healthy social, economic and natural systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCS 5307. Sustainable Lighting.

This course focuses on understanding the elements and principles of sustainable lighting and explains how it meets the qualitative needs of the visual environment with the least impact on the natural environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FCS 5310. Research Methods in FCS.

This course will cover the evaluation of concepts, methods, and strategies for research in the disciplines of family and consumer sciences. The course will focus on the nature and ethics of scientific research, including design, sampling, measurement, and data collection. Restricted to graduate level majors in the School of Family and Consumer Sciences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**FCS 5311. Statistics and Data Analysis for Family and Consumer Sciences.**

This is a graduate level course covering statistical techniques commonly used in the field of family and consumer sciences. Topics include descriptive statistics, Chi-Square analysis, analysis of variance and covariance, simple and multiple linear regression, logistic regression, and use of statistical software. Data analysis to support decision-making is emphasized. Prerequisite: FCS 5310. Restricted to graduate students in FCS

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 5340. International Study in Family and Consumer Sciences.**

Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on an analysis of cultural differences and similarities and their application within FCS professions. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

## Dietetic Internship Certificate Program

The dietetic internship (DI) at Texas State is a post-graduate non-degree program that fulfills the supervised practice requirements to become a registered dietitian. At the successful completion of the program, the student will be eligible to sit for the Registration Exam, which is required to become a registered dietitian.

This program incorporates a minimum of 1,200 hours of supervised practice with three graduate courses that address topics related to dietetic practice. The program is currently accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (ADA). Students must maintain a 3.0 grade point average in their course work to successfully complete the DI. A grade of D or F in any of the graduate classes will result in dismissal from the program.

The Texas State dietetic internship participates in the online application system **DICAS** for non-Texas State applicants. Information about accessing this system can be found at <http://www.eatright.org/CADE/content.aspx?id=186>.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html#Diet](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html#Diet).

### Pre-select Option

Each spring, undergraduate and graduate students at Texas State who seek the RD credential can apply to the Texas State dietetic internship using a "pre-select option" instead of using the traditional computer-matching process. M.S. students are eligible to apply using the pre-select option if they have completed at least one term in the M.S. program and will have obtained a Verification Statement from a CADE-accredited Didactic Program in Dietetics before the internship begins. Additional information regarding admission application requirements and deadlines can be found online at [http://www.fcs.txstate.edu/degrees-programs/nutr/nutr\\_di.html](http://www.fcs.txstate.edu/degrees-programs/nutr/nutr_di.html).

### Post-Acceptance Requirements

- Negative Tb test
- Negative drug screening urinalysis
- Criminal background check
- Immunization for Hepatitis B, mumps, measles, and tetanus

### Course Work Requirements

	Fall Semester	Hours	Spring Semester	Hours	Summer	Year 1 Hours	
NUTR 5362		3	NUTR 5306		3	NUTR 5363	3
NUTR 5360		3	NUTR 5360		3	NUTR 5360	3
		6			6		6

Total Hours: 18

Note: Up to 9 hours of DI course work can be applied to the requirements for completion of the M.S. degree.

### Program Completion Requirements

- Attainment of entry-level performance through completion of approximately 1,240 hours of supervised practice

## Department of Occupational, Workforce, and Leadership Studies

Pedernales Building

T: 512.245.2115 F: 512.245.3047

<http://www.owls.txstate.edu>

The Department of Occupational, Workforce, and Leadership Studies at Texas State prepares nontraditional students for careers through high-quality academic, professional, and technical programs. Here are some of the reasons this may be the right program for you:

- We offer courses at convenient times and locations for the working adult.
- By using past courses and work/life credit, you may be able to complete your entire degree in San Antonio or at the Round Rock campus.
- You can individualize your degree. Faculty advisors work with you in analyzing your strengths and weaknesses, and planning your future career goals.

### Master of Arts in Interdisciplinary Studies (M.A.I.S.)

- Major in Interdisciplinary Studies (OWLS) (p. 615)

### Master of Science in Interdisciplinary Studies (M.S.I.S.)

- Major in Interdisciplinary Studies (OWLS) (p. 619)

### Master of Education (M.Ed.)

- Major in Management of Technical Education (p. 623)

# Master of Arts in Interdisciplinary Studies (M.A.I.S.), Major in Interdisciplinary Studies

## Major Program

The master of arts in interdisciplinary studies (M.A.I.S.) degree with a concentration in occupation, workforce, and leadership studies is coordinated through the Department of Occupational, Workforce, and Leadership Studies. The interdisciplinary studies degree program is offered by the University and is not meant to replace any currently existing traditional program of study but does draw courses from other departments offering graduate-level work. The interdisciplinary studies degree is highly individualized and is designed to provide the adult with various course options. Further information may be obtained by contacting the program chair of the Department of Occupational, Workforce, and Leadership Studies, referencing the "Interdisciplinary Studies" section of this catalog, or the Department of Occupational, Workforce, and Leadership Studies website at <http://www.oced.txstate.edu/>.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/oced>.

## Degree Requirements

The M.A.I.S. degree consists of a minimum of 39-hours. Degree requirements include an entry module (9 hours), an academic module (21 hours), and an exit module (9 hours). **Do not register for any course without the prior approval of your graduate advisor.**

## Course Work Requirements

<b>Entry Module Course Work</b> <sup>1</sup>	9
Choose 9 hours of Graduate Advisor Approved Electives	
<b>Academic Module Course Work</b>	21
Choose 21 hours of Graduate Advisor Approved Electives	
<b>Exit Module Course Work</b> <sup>2</sup>	
OCED 5300 Interdisciplinary Research Methods	3
OCED 5301 Applied Interdisciplinary Research Part 1	3
OCED 5302 Applied Interdisciplinary Research Part 2	3
<b>Total Hours</b>	<b>39</b>

<sup>1</sup> Students are not required to complete the Entry Module first. Courses from any module may be taken in any order, with the exception as noted in the Exit Module. The Entry Module is designed to help the student develop skills relating to communication, human relations, and cultural understanding. Students may choose courses from the following departments: Adult Education (ADED), Career and Technology Education (CTE), Developmental Education (DE), Healthcare Human Resources (HHR), English (ENG), Psychology (PSY), and Sociology (SOCI).

<sup>2</sup> The courses in the Exit Module are sequential. OCED 5300 is *only* offered during fall semesters. You may take Exit Module courses while also taking Entry or Academic Module courses.

Master's level courses in Occupational, Workforce, and Leadership Studies: CTE (p. 615), OCED (p. 617), IDS (p. 618)

## Courses Offered

### Career and Technical Education (CTE)

#### CTE 5300. Career and Technical Education Student Identification, Placement, and Follow-up.

This course provides an overview of the theory, methods, and instruments used in determining occupational aptitude, programs of job placement, and the study of the development and coordination of student follow-up

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5301. Technology of Teaching.

This course presents the research and theory related to the technology of teaching. Topics include learning theories, effective teaching techniques, motivation and performance, evaluation, and classroom dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5302. Coordination Techniques.

This course emphasizes the establishment of cooperative education programs, guidance, selection, and placement of students, work adjustment, the setting of student objectives, evaluation, labor laws, current research, and public relations for cooperative education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5304. Organization and Management of Marketing Education Programs.

This course highlights the organization and administrative structure of both school based and workplace based marketing education programs in the United States. The course includes a discussion of objectives, programs, practices, teacher selection and supervision, and evaluative criteria for business education departments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5305. Laboratory and Classroom Organization and Management.

This course involves the organization and management of CTE classroom and instructional laboratories and related materials. It includes the establishment of record and inventory systems, establishment of student rotations, hygiene and safety requirements, working with suppliers and potential donors, and maintenance of equipment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5306. Instructional Materials Development Technology.

This course provides students opportunities to develop knowledge, skills, and abilities relevant to assessing instructional materials in education and training, within the context of real-world settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5307. Selection, Placement, and Follow-Up in Cooperative Education.**

This course provides an overview of organizing and operating cooperative training programs in the community. It includes instruction in the procedures for assisting in the selection of occupations appropriate for students, assisting students in managing school and work time, and coordinating of school and workplace instructional efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5308. Problems in Cooperative Training.**

This course provides a review of basic standards for cooperative education, underlying reasons for standards, and current issues/problems in cooperative education programs. Students will discuss and provide solutions to current dilemmas of cooperative education, through the use of organizational research techniques and organizational problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5312. Development, Organization, and Use of Instructional Material.**

This course involves the selection of lesson content, lesson planning, and instructional material development. The emphasis is on the effective development and evaluation of instructional materials. A variety of methods will be taught to gather and utilize instructional materials

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5313C. Teaching Entrepreneurship in Career and Technical Education.**

This course includes a study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. Students will analyze current research and techniques in teaching entrepreneurship in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 5313D. Leadership and Leadership Activities for Career and Technical Education Teachers.**

This course provides an overview of leadership and management styles, theories, and current research. An overview of leadership development techniques utilized in various CTE settings will be provided

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 5313F. Human Performance in the Workplace.**

The course provides an overview of current quality improvement strategies utilized in business and industry settings. Topics include the teaching of HPT, organizational culture, teamwork, leadership, measuring improvement, statistical process control, and restructuring of work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 5313K. Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies.**

This course provides an overview of interdisciplinary studies frameworks in the fields related to occupational, workforce, and leadership studies. Students investigate career options, develop plans of study, integrate interdisciplinary academic material, and refine interdisciplinary writing skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 5313L. Emergent Workplace Perspectives.**

This course examines the emergent and evolving nature of the modern workplace. Students will explore topics related to interdisciplinary perspectives in the workplace such as inequality related to gender and race, workers' rights, knowledge, control, the role of technology, and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**CTE 5314. Human Relations for Career and Technical Education Teachers.**

This course includes a study of methods of establishing and maintaining effective relationships with students, co-workers, families, business and industry, and community members. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5320. Effective Methods of Teaching and Training.**

This fundamental course is for trade and industrial educators seeking certification and technical trainers who are not seeking certification. It is designed to prepare them to apply effective teaching principles and techniques. Lesson plans will be prepared, classrooms managed, and practice teaching included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5321. Work-based Learning in Career and Technical Education.**

This course is intended for teacher coordinators of work-based programs in trades and industrial cooperative education. There is an emphasis on selection of occupations and training stations, student recruitment, instructional coordination in numerous on-the-job experiences, state and local reports, and recordkeeping requirements. Research is conducted on local districts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training. Research is conducted on reform efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CTE 5323. Technology Applications.**

This course covers the use of computers in the classroom or office. Topics include history of computers, philosophies of computer integration, research in computer use, overview of common computer programs, and history and use of the Internet. Trades and Industry teacher candidates will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5330. Overview of Interdisciplinary Research.**

Students will become familiar with various interdisciplinary research methods, learn concepts related to research, and conduct reviews and critiques of academic research articles. The application of academic research to practical problems will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5341. Supervision of Career and Technical Education.**

This course provides an overview of skills and attitudes for the supervision of personnel in the field of CTE. Students will learn the dynamics of supervision, the supervisor's role in the workplace, and the evaluation of instructional and other personnel in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5355. Career Education and Occupational Information in Career and Technical Education Guidance.**

This course deals with the collection, evaluation, and interpretation of common occupational, career, and personal information. It includes an overview of current theory and research in occupational selection techniques, psychological and sociological factors in career selection, and job analysis. The emphasis is on the practical application in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5380. Management of Business Office Education Training Programs.**

This course is for instructors in industry and business education settings and involves an in-depth analysis of governmental policies relating to teaching and training in business education, working with cooperative education students, assisting individuals with the transition to the workplace and further education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5381. Instructional Strategies in Business Office Education Training Programs.**

This course is designed for instructors in educational and industry settings. Students will learn to prepare in-depth individualized units of instruction, which include selecting curriculum, incorporating technology in teaching and training, and methods of assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5390. Independent Study in Career and Technical Education.**

This is an independent study course involving the study of important and timely topics in CTE. Students complete the study at the direction of the faculty member. This course may be repeated with different topics with departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**Occupational Education (OCED)****OCED 5101. Instructional Skill Development.**

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Occupational/Career and Technology Education. Topics covered are essential teaching strategies, techniques, evaluation design, online instruction, and effective instructional, motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**OCED 5300. Interdisciplinary Research Methods.**

Basic and advanced concepts related to interdisciplinary research. Special emphasis will be placed on technical writing skills, electronic analysis of databases, appropriate statistical treatment of data, development and validation of instruments, and interdisciplinary research design and procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5301. Applied Interdisciplinary Research Part 1.**

The instructional intent is to provide the graduate students with an opportunity to apply their research skills. Students are carefully monitored and mentored in initiating, performing, and documenting their individualized research project. Prerequisites: OCED 5300 and approval of research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5302. Applied Interdisciplinary Research Part 2.**

This course is the final course in the interdisciplinary research series. It requires the development of a comprehensive final research report including extensive tables and graphs. Students must also be prepared to present the findings of the research to the Occupational Education faculty and students at the Graduate Research Forum. Prerequisite: OCED 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5304. Professional Practicum.**

This course engages students in a field based experience designed in OCED 5360C, the previous course in the sequence. Students implement their practicum of approximately 120 hours in a work-based setting and concurrently collect ongoing reflections of their experience. Prerequisite: OCED 5360C

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**OCED 5360. Special Topics in Occupational Education.**

This course represents directed study and research in selected topics in occupational education such as systems theory or critical thinking for the workplace. Independent research projects may be assigned to each student as part of the course. May be repeated (with different emphases) for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360A. Sustainable Human Systems in Occupational Sciences.**

This course provides students with a knowledge foundation for systems theory. This knowledge, plus ethical reflection and applicable field work, will enhance students' ability to understand human systems, ambiguity in those systems and organizational complexity, and have the ability to leverage systemic problem-solving skills and human interventions in organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360B. Critical Thinking in the Workplace.**

This course provides students with an opportunity to examine workplace decision making in terms of critical thinking. Current occupational approaches to critical thinking will be emphasized. Students will participate in simulations and case studies of critical thinking for the workplace

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360C. Reflective and Experiential Learning Techniques.**

This course prepares graduate students for a field-based practicum. Students learn reflection and experiential learning techniques useful in the domain of careers, workplace, and leadership. They also locate, develop, and propose a professional practicum experience, which can be carried out in a following course. Prerequisite or Co-requisite: CTE 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**OCED 5360D. Leadership Development.**

This course introduces students to leadership theory. Students will explore multiple approaches to leadership, topics related to leadership within organizations, ethics and values in leadership, and practical applications of theory in real-life situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**Interdisciplinary Studies (IDS)****IDS 5191. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5198. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5291. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5298. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5391. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5398. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in IDS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**IDS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science in Interdisciplinary Studies (M.S.I.S.), Major in Interdisciplinary Studies

### Major Program

The master of science in interdisciplinary studies (M.S.I.S.) degree with a concentration in occupation, workforce, and leadership studies is coordinated through the Department of Occupational, Workforce, and Leadership Studies. The interdisciplinary studies degree program is offered by the University and is not meant to replace any currently existing traditional program of study but does draw courses from other departments offering graduate-level work. The interdisciplinary studies degree is highly individualized and is designed to provide the adult with various course options. Further information may be obtained by contacting the program chair of the Department of Occupational, Workforce, and Leadership Studies, referencing the "interdisciplinary studies" section of this catalog, or the Department of Occupational, Workforce, and Leadership Studies website at <http://www.oced.txstate.edu/>.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/oced>.

### Degree Requirements

The M.S.I.S. degree consists of a minimum of 39-hours. Degree requirements include an entry module (9 hours), an academic module (21 hours), and an exit module (9 hours). **Do not register for any course without the prior approval of your graduate advisor.**

### Course Work Requirements

<b>Entry Module Course Work</b> <sup>1</sup>	9
Choose 9 hours of Graduate Advisor Approved Electives	
<b>Academic Module Course Work</b>	21
Choose 21 hours of Graduate Advisor Approved Electives	
<b>Exit Module Course Work</b> <sup>2</sup>	

OCED 5300	Interdisciplinary Research Methods	3
OCED 5301	Applied Interdisciplinary Research Part 1	3
OCED 5302	Applied Interdisciplinary Research Part 2	3
Total Hours		39

- Students are not required to complete the Entry Module first. Courses from any module may be taken in any order, with the exception as noted in the Exit Module. The Entry Module is designed to help the student develop skills relating to communication, human relations, and cultural understanding. Students may choose courses from the following departments: Adult Education (ADED), Career and Technology Education (CTE), Developmental Education (DE), Healthcare Human Resources (HHR), English (ENG), Psychology (PSY), and Sociology (SOCL).
- The courses in the Exit Module are sequential. OCED 5300 is **only** offered during fall semesters. You may take Exit Module courses while also taking Entry or Academic Module courses.

Master's level courses in Occupational, Workforce, and Leadership Studies: CTE (p. 619), OCED (p. 621), IDS (p. 622)

## Courses Offered

### Career and Technical Education (CTE)

#### CTE 5300. Career and Technical Education Student Identification, Placement, and Follow-up.

This course provides an overview of the theory, methods, and instruments used in determining occupational aptitude, programs of job placement, and the study of the development and coordination of student follow-up

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5301. Technology of Teaching.

This course presents the research and theory related to the technology of teaching. Topics include learning theories, effective teaching techniques, motivation and performance, evaluation, and classroom dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5302. Coordination Techniques.

This course emphasizes the establishment of cooperative education programs, guidance, selection, and placement of students, work adjustment, the setting of student objectives, evaluation, labor laws, current research, and public relations for cooperative education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CTE 5304. Organization and Management of Marketing Education Programs.

This course highlights the organization and administrative structure of both school based and workplace based marketing education programs in the United States. The course includes a discussion of objectives, programs, practices, teacher selection and supervision, and evaluative criteria for business education departments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5305. Laboratory and Classroom Organization and Management.**

This course involves the organization and management of CTE classroom and instructional laboratories and related materials. It includes the establishment of record and inventory systems, establishment of student rotations, hygiene and safety requirements, working with suppliers and potential donors, and maintenance of equipment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5306. Instructional Materials Development Technology.**

This course provides students opportunities to develop knowledge, skills, and abilities relevant to assessing instructional materials in education and training, within the context of real-world settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5307. Selection, Placement, and Follow-Up in Cooperative Education.**

This course provides an overview of organizing and operating cooperative training programs in the community. It includes instruction in the procedures for assisting in the selection of occupations appropriate for students, assisting students in managing school and work time, and coordinating of school and workplace instructional efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5308. Problems in Cooperative Training.**

This course provides a review of basic standards for cooperative education, underlying reasons for standards, and current issues/problems in cooperative education programs. Students will discuss and provide solutions to current dilemmas of cooperative education, through the use of organizational research techniques and organizational problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5312. Development, Organization, and Use of Instructional Material.**

This course involves the selection of lesson content, lesson planning, and instructional material development. The emphasis is on the effective development and evaluation of instructional materials. A variety of methods will be taught to gather and utilize instructional materials

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5313C. Teaching Entrepreneurship in Career and Technical Education.**

This course includes a study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. Students will analyze current research and techniques in teaching entrepreneurship in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313D. Leadership and Leadership Activities for Career and Technical Education Teachers.**

This course provides an overview of leadership and management styles, theories, and current research. An overview of leadership development techniques utilized in various CTE settings will be provided

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313F. Human Performance in the Workplace.**

The course provides an overview of current quality improvement strategies utilized in business and industry settings. Topics include the teaching of HPT, organizational culture, teamwork, leadership, measuring improvement, statistical process control, and restructuring of work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313K. Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies.**

This course provides an overview of interdisciplinary studies frameworks in the fields related to occupational, workforce, and leadership studies. Students investigate career options, develop plans of study, integrate interdisciplinary academic material, and refine interdisciplinary writing skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313L. Emergent Workplace Perspectives.**

This course examines the emergent and evolving nature of the modern workplace. Students will explore topics related to interdisciplinary perspectives in the workplace such as inequality related to gender and race, workers' rights, knowledge, control, the role of technology, and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5314. Human Relations for Career and Technical Education Teachers.**

This course includes a study of methods of establishing and maintaining effective relationships with students, co-workers, families, business and industry, and community members. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted

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**Grade Mode:** Standard Letter

**CTE 5321. Work-based Learning in Career and Technical Education.**

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**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training. Research is conducted on reform efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

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**CTE 5323. Technology Applications.**

This course covers the use of computers in the classroom or office. Topics include history of computers, philosophies of computer integration, research in computer use, overview of common computer programs, and history and use of the Internet. Trades and Industry teacher candidates will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5330. Overview of Interdisciplinary Research.**

Students will become familiar with various interdisciplinary research methods, learn concepts related to research, and conduct reviews and critiques of academic research articles. The application of academic research to practical problems will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5341. Supervision of Career and Technical Education.**

This course provides an overview of skills and attitudes for the supervision of personnel in the field of CTE. Students will learn the dynamics of supervision, the supervisor's role in the workplace, and the evaluation of instructional and other personnel in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5355. Career Education and Occupational Information in Career and Technical Education Guidance.**

This course deals with the collection, evaluation, and interpretation of common occupational, career, and personal information. It includes an overview of current theory and research in occupational selection techniques, psychological and sociological factors in career selection, and job analysis. The emphasis is on the practical application in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5380. Management of Business Office Education Training Programs.**

This course is for instructors in industry and business education settings and involves an in-depth analysis of governmental policies relating to teaching and training in business education, working with cooperative education students, assisting individuals with the transition to the workplace and further education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5381. Instructional Strategies in Business Office Education Training Programs.**

This course is designed for instructors in educational and industry settings. Students will learn to prepare in-depth individualized units of instruction, which include selecting curriculum, incorporating technology in teaching and training, and methods of assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5390. Independent Study in Career and Technical Education.**

This is an independent study course involving the study of important and timely topics in CTE. Students complete the study at the direction of the faculty member. This course may be repeated with different topics with departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**Occupational Education (OCED)****OCED 5101. Instructional Skill Development.**

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Occupational/Career and Technology Education. Topics covered are essential teaching strategies, techniques, evaluation design, online instruction, and effective instructional, motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**OCED 5300. Interdisciplinary Research Methods.**

Basic and advanced concepts related to interdisciplinary research. Special emphasis will be placed on technical writing skills, electronic analysis of databases, appropriate statistical treatment of data, development and validation of instruments, and interdisciplinary research design and procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5301. Applied Interdisciplinary Research Part 1.**

The instructional intent is to provide the graduate students with an opportunity to apply their research skills. Students are carefully monitored and mentored in initiating, performing, and documenting their individualized research project. Prerequisites: OCED 5300 and approval of research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5302. Applied Interdisciplinary Research Part 2.**

This course is the final course in the interdisciplinary research series. It requires the development of a comprehensive final research report including extensive tables and graphs. Students must also be prepared to present the findings of the research to the Occupational Education faculty and students at the Graduate Research Forum. Prerequisite: OCED 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5304. Professional Practicum.**

This course engages students in a field based experience designed in OCED 5360C, the previous course in the sequence. Students implement their practicum of approximately 120 hours in a work-based setting and concurrently collect ongoing reflections of their experience. Prerequisite: OCED 5360C

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5360. Special Topics in Occupational Education.**

This course represents directed study and research in selected topics in occupational education such as systems theory or critical thinking for the workplace. Independent research projects may be assigned to each student as part of the course. May be repeated (with different emphases) for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360A. Sustainable Human Systems in Occupational Sciences.**

This course provides students with a knowledge foundation for systems theory. This knowledge, plus ethical reflection and applicable field work, will enhance students' ability to understand human systems, ambiguity in those systems and organizational complexity, and have the ability to leverage systemic problem-solving skills and human interventions in organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360B. Critical Thinking in the Workplace.**

This course provides students with an opportunity to examine workplace decision making in terms of critical thinking. Current occupational approaches to critical thinking will be emphasized. Students will participate in simulations and case studies of critical thinking for the workplace

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360C. Reflective and Experiential Learning Techniques.**

This course prepares graduate students for a field-based practicum. Students learn reflection and experiential learning techniques useful in the domain of careers, workplace, and leadership. They also locate, develop, and propose a professional practicum experience, which can be carried out in a following course. Prerequisite or Co-requisite: CTE 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**OCED 5360D. Leadership Development.**

This course introduces students to leadership theory. Students will explore multiple approaches to leadership, topics related to leadership within organizations, ethics and values in leadership, and practical applications of theory in real-life situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**Interdisciplinary Studies (IDS)****IDS 5191. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5198. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5291. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5298. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5391. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**IDS 5398. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in IDS 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Education (M.Ed.), Major in Management of Technical Education Major Program

The Department of Occupational, Workforce, and Leadership Studies also offers the master of education (M.Ed.) degree for those interested in supervision. The M.Ed. degree has a major in management of technical education and is a highly specialized degree program. It is designed to assist an individual in learning skills that would enhance his or her performance in managing technical education in either an education or an industrial setting. The degree provides the broad skills necessary for an educator or trainer to become a better instructor and manager of instruction. In this program, students develop instructional and managerial competencies through various courses in curriculum design and delivery, instructional improvement, human performance technology, class organization, management, teaching/learning styles, diversity, understanding organizations, and program evaluation. Course schedules are flexible to accommodate the needs of working professionals, and many courses are offered in online and hybrid formats. This option allows students to complete courses from home and study whenever and wherever is convenient. Hybrid courses meet three times each semester, and the remainder of the work is online. Contact the program chair of Department of Occupational, Workforce, and Leadership Studies or go to <http://www.ocado.txstate.edu/> for more information.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mtec>.

## Course Work Requirements

Each level must be completed before a student may start on the next level unless granted permission from the graduate advisor. All 5000-level EDCL courses should be taken in numerical order. CTE electives must be approved by the graduate advisor.

<b>Level I Requirements</b>		15
Choose 15 hours from the following:		
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	
EDCL 5340	Shaping Organizations and Using Inquiry: Management and Leadership	
EDCL 5345	Understanding People: Professional Development	
EDCL 5347	Understanding Environments: Social, Political, Economic, Legal, and Technological	
EDCL 5348	Supervision of Instruction	
EDCL 6342	Curriculum Design	
EDCL 6344	Campus Leadership	
<b>Level II Requirements</b>		21
Choose 21 hours from the following:		
CTE 5301	Technology of Teaching	
CTE 5306	Instructional Materials Development Technology	
CTE 5313D	Leadership and Leadership Activities for Career and Technical Education Teachers	
CTE 5313F	Human Performance in the Workplace	
CTE 5314	Human Relations for Career and Technical Education Teachers	
CTE 5320	Effective Methods of Teaching and Training	
CTE 5321	Work-based Learning in Career and Technical Education	
CTE 5322	Teaching and Training as Professions	
CTE 5341	Supervision of Career and Technical Education	
CTE 5355	Career Education and Occupational Information in Career and Technical Education Guidance	
CTE 5380	Management of Business Office Education Training Programs	
CTE 5381	Instructional Strategies in Business Office Education Training Programs	
OCED 5310	Human Problems in the Workplace	
<b>Total Hours</b>		<b>36</b>

Master's level courses in Occupational, Workforce, and Leadership Studies: CTE (p. 624), OCED (p. 625)



## Courses Offered

### Career and Technical Education (CTE)

#### **CTE 5300. Career and Technical Education Student Identification, Placement, and Follow-up.**

This course provides an overview of the theory, methods, and instruments used in determining occupational aptitude, programs of job placement, and the study of the development and coordination of student follow-up

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5301. Technology of Teaching.**

This course presents the research and theory related to the technology of teaching. Topics include learning theories, effective teaching techniques, motivation and performance, evaluation, and classroom dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5302. Coordination Techniques.**

This course emphasizes the establishment of cooperative education programs, guidance, selection, and placement of students, work adjustment, the setting of student objectives, evaluation, labor laws, current research, and public relations for cooperative education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5304. Organization and Management of Marketing Education Programs.**

This course highlights the organization and administrative structure of both school based and workplace based marketing education programs in the United States. The course includes a discussion of objectives, programs, practices, teacher selection and supervision, and evaluative criteria for business education departments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5305. Laboratory and Classroom Organization and Management.**

This course involves the organization and management of CTE classroom and instructional laboratories and related materials. It includes the establishment of record and inventory systems, establishment of student rotations, hygiene and safety requirements, working with suppliers and potential donors, and maintenance of equipment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5306. Instructional Materials Development Technology.**

This course provides students opportunities to develop knowledge, skills, and abilities relevant to assessing instructional materials in education and training, within the context of real-world settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5307. Selection, Placement, and Follow-Up in Cooperative Education.**

This course provides an overview of organizing and operating cooperative training programs in the community. It includes instruction in the procedures for assisting in the selection of occupations appropriate for students, assisting students in managing school and work time, and coordinating of school and workplace instructional efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5308. Problems in Cooperative Training.**

This course provides a review of basic standards for cooperative education, underlying reasons for standards, and current issues/problems in cooperative education programs. Students will discuss and provide solutions to current dilemmas of cooperative education, through the use of organizational research techniques and organizational problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5312. Development, Organization, and Use of Instructional Material.**

This course involves the selection of lesson content, lesson planning, and instructional material development. The emphasis is on the effective development and evaluation of instructional materials. A variety of methods will be taught to gather and utilize instructional materials

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CTE 5313C. Teaching Entrepreneurship in Career and Technical Education.**

This course includes a study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. Students will analyze current research and techniques in teaching entrepreneurship in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

#### **CTE 5313D. Leadership and Leadership Activities for Career and Technical Education Teachers.**

This course provides an overview of leadership and management styles, theories, and current research. An overview of leadership development techniques utilized in various CTE settings will be provided

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

#### **CTE 5313F. Human Performance in the Workplace.**

The course provides an overview of current quality improvement strategies utilized in business and industry settings. Topics include the teaching of HPT, organizational culture, teamwork, leadership, measuring improvement, statistical process control, and restructuring of work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

#### **CTE 5313K. Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies.**

This course provides an overview of interdisciplinary studies frameworks in the fields related to occupational, workforce, and leadership studies. Students investigate career options, develop plans of study, integrate interdisciplinary academic material, and refine interdisciplinary writing skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313L. Emergent Workplace Perspectives.**

This course examines the emergent and evolving nature of the modern workplace. Students will explore topics related to interdisciplinary perspectives in the workplace such as inequality related to gender and race, workers' rights, knowledge, control, the role of technology, and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5314. Human Relations for Career and Technical Education Teachers.**

This course includes a study of methods of establishing and maintaining effective relationships with students, co-workers, families, business and industry, and community members. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5320. Effective Methods of Teaching and Training.**

This fundamental course is for trade and industrial educators seeking certification and technical trainers who are not seeking certification. It is designed to prepare them to apply effective teaching principles and techniques. Lesson plans will be prepared, classrooms managed, and practice teaching included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5321. Work-based Learning in Career and Technical Education.**

This course is intended for teacher coordinators of work-based programs in trades and industrial cooperative education. There is an emphasis on selection of occupations and training stations, student recruitment, instructional coordination in numerous on-the-job experiences, state and local reports, and recordkeeping requirements. Research is conducted on local districts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training. Research is conducted on reform efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5323. Technology Applications.**

This course covers the use of computers in the classroom or office. Topics include history of computers, philosophies of computer integration, research in computer use, overview of common computer programs, and history and use of the Internet. Trades and Industry teacher candidates will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5330. Overview of Interdisciplinary Research.**

Students will become familiar with various interdisciplinary research methods, learn concepts related to research, and conduct reviews and critiques of academic research articles. The application of academic research to practical problems will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5341. Supervision of Career and Technical Education.**

This course provides an overview of skills and attitudes for the supervision of personnel in the field of CTE. Students will learn the dynamics of supervision, the supervisor's role in the workplace, and the evaluation of instructional and other personnel in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5355. Career Education and Occupational Information in Career and Technical Education Guidance.**

This course deals with the collection, evaluation, and interpretation of common occupational, career, and personal information. It includes an overview of current theory and research in occupational selection techniques, psychological and sociological factors in career selection, and job analysis. The emphasis is on the practical application in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5380. Management of Business Office Education Training Programs.**

This course is for instructors in industry and business education settings and involves an in-depth analysis of governmental policies relating to teaching and training in business education, working with cooperative education students, assisting individuals with the transition to the workplace and further education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5381. Instructional Strategies in Business Office Education Training Programs.**

This course is designed for instructors in educational and industry settings. Students will learn to prepare in-depth individualized units of instruction, which include selecting curriculum, incorporating technology in teaching and training, and methods of assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5390. Independent Study in Career and Technical Education.**

This is an independent study course involving the study of important and timely topics in CTE. Students complete the study at the direction of the faculty member. This course may be repeated with different topics with departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**Occupational Education (OCED)****OCED 5101. Instructional Skill Development.**

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Occupational/Career and Technology Education. Topics covered are essential teaching strategies, techniques, evaluation design, online instruction, and effective instructional, motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**OCED 5300. Interdisciplinary Research Methods.**

Basic and advanced concepts related to interdisciplinary research. Special emphasis will be placed on technical writing skills, electronic analysis of databases, appropriate statistical treatment of data, development and validation of instruments, and interdisciplinary research design and procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5301. Applied Interdisciplinary Research Part 1.**

The instructional intent is to provide the graduate students with an opportunity to apply their research skills. Students are carefully monitored and mentored in initiating, performing, and documenting their individualized research project. Prerequisites: OCED 5300 and approval of research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5302. Applied Interdisciplinary Research Part 2.**

This course is the final course in the interdisciplinary research series. It requires the development of a comprehensive final research report including extensive tables and graphs. Students must also be prepared to present the findings of the research to the Occupational Education faculty and students at the Graduate Research Forum. Prerequisite: OCED 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5304. Professional Practicum.**

This course engages students in a field based experience designed in OCED 5360C, the previous course in the sequence. Students implement their practicum of approximately 120 hours in a work-based setting and concurrently collect ongoing reflections of their experience. Prerequisite: OCED 5360C

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5360. Special Topics in Occupational Education.**

This course represents directed study and research in selected topics in occupational education such as systems theory or critical thinking for the workplace. Independent research projects may be assigned to each student as part of the course. May be repeated (with different emphases) for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360A. Sustainable Human Systems in Occupational Sciences.**

This course provides students with a knowledge foundation for systems theory. This knowledge, plus ethical reflection and applicable field work, will enhance students' ability to understand human systems, ambiguity in those systems and organizational complexity, and have the ability to leverage systemic problem-solving skills and human interventions in organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360B. Critical Thinking in the Workplace.**

This course provides students with an opportunity to examine workplace decision making in terms of critical thinking. Current occupational approaches to critical thinking will be emphasized. Students will participate in simulations and case studies of critical thinking for the workplace

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCED 5360C. Reflective and Experiential Learning Techniques.**

This course prepares graduate students for a field-based practicum. Students learn reflection and experiential learning techniques useful in the domain of careers, workplace, and leadership. They also locate, develop, and propose a professional practicum experience, which can be carried out in a following course. Prerequisite or Co-requisite: CTE 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**OCED 5360D. Leadership Development.**

This course introduces students to leadership theory. Students will explore multiple approaches to leadership, topics related to leadership within organizations, ethics and values in leadership, and practical applications of theory in real-life situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## School of Social Work

Health Professions Building Room 150

T: 512.245.2592 F: 512.245.8097

<http://www.socialwork.txstate.edu/>

The School of Social Work is a vibrant branch of the College of Applied Arts. Its graduate program prepares students to engage in advanced specialized social work practice using a generalist framework.

The School of Social Work at Texas State has long been committed to preparing social workers to engage competently with those clients who are most forgotten in our society; these are the clients who are typically served by public agencies. Not only are the School's graduates well-prepared to deal effectively with the most marginalized populations, they are also quite competent in working with a broad spectrum of clients, other professionals, policy-makers, and organizations. A key component to their preparation is the School's extensive network of public and private agencies, both rural and urban, in which students are placed for field practicum. The School is closely connected with the University's Center for Children and Families, and many of the School's students are pursuing careers working with children and families.

## Master of Social Work (M.S.W.)

- Major in Social Work (p. 627)

## Masters of Social Work (M.S.W.), Major in Social Work

### Major Program

The School of Social Work offers the master of social work (M.S.W.) degree, which prepares students for advanced specialized practice. The degree is fully accredited by the Council on Social Work Education. Social work practice at the M.S.W. level shares a common core of knowledge, values, and skills. Throughout the curriculum, the School emphasizes social justice and professional ethics. The M.S.W. degree prepares graduates for a wide variety of positions in many diverse, interesting fields that address human needs.

### Admission Policy

For information regarding admission application requirements and deadlines, applicants should visit The Graduate College website using one of the following links:

Advanced (BSW Holders) <http://www.gradcollege.txstate.edu/sowka.html>

Foundation (Non-BSW Holders) <http://www.gradcollege.txstate.edu/sowkf.html>

Online Advanced (BSW Holders) <http://www.gradcollege.txstate.edu/sowkoa>

Online Foundation (Non-BSW Holders) <http://www.gradcollege.txstate.edu/sowkof>

### The M.S.W. Program

The M.S.W. degree program prepares graduates for advanced specialized professional social work practice, particularly in public services. The M.S.W. degree program offers regular and advanced standing tracks, as well as full- and part-time study.

The regular track involves 62 hours of course work. Full-time students typically spend two years (five terms) to complete the degree, while part-time students will commit four years to complete the M.S.W.

The advanced standing program (which enrolls students directly into second year content) consists of 36 hours of course work organized across one calendar year of three terms. Advanced standing is open to students who hold the B.S.W. degree. Students committed to part-time study should expect to spend two years to complete the advanced standing track.

The first (foundation) year curriculum focuses on the generic foundation knowledge and skills necessary for general social work practice, while the second (advanced) year focuses on specialized practice. Regular track students in their second year of course work, as well as advanced standing students, select a concentration of study in **Advanced Practice Leadership**.

Courses may be offered face-to-face, on-line, by web-casting or interactive television, or using a combination of these teaching methods.

### Degree Requirements

Regular admission students must complete 62 credit hours to earn the M.S.W. degree. Advanced standing students must complete 36 credit hours.

### Course Work Requirements

#### Advanced Practice Leadership Concentration (Regular, Non-BSW Holders)

SOWK 5308	Human Behavior in Individual and Family Social Environments	3
SOWK 5309	Human Behavior in Local and Global Social Environments	3
SOWK 5310	Social Welfare Policy and Services	3
SOWK 5313	Foundation Social Work Practice I	3
SOWK 5314	Foundation Social Work Practice II	3
SOWK 5316	Foundation Social Work Practice III	3
SOWK 5317	Social Work Research	3
SOWK 5410	Foundation Field I (Concurrent)	4
SOWK 5411	Foundation Field II (Concurrent)	4
SOWK 5322	Advanced Social Policy and Social Justice	3
SOWK 5323	Advanced Social Work Research	3
SOWK 5370	Advanced Program Planning and Grant-Based Resource Development	3
SOWK 5371	Advanced Assessment, Leadership, and Supervision in Social Service Organizations	3
SOWK 5372	Advanced Diagnostic Assessment and Intervention with Individuals	3
SOWK 5373	Advanced Intervention with Families and Groups	3
SOWK 5678	Advanced Practicum 1	6
SOWK 5679	Advanced Practicum 2	6

#### Social Work Elective

Choose from the following:		3
SOWK 5312	Social Work Intervention in Drug Addiction & Abuse	
SOWK 5315	Social Work Intervention in Child Abuse & Neglect	
SOWK 5339	Selected Topics in Social Work	

Total Hours 62

#### Advanced Practice Leadership Concentration (Advanced, BSW Holders)

SOWK 5322	Advanced Social Policy and Social Justice	3
SOWK 5323	Advanced Social Work Research	3
SOWK 5370	Advanced Program Planning and Grant-Based Resource Development	3
SOWK 5371	Advanced Assessment, Leadership, and Supervision in Social Service Organizations	3
SOWK 5372	Advanced Diagnostic Assessment and Intervention with Individuals	3
SOWK 5373	Advanced Intervention with Families and Groups	3
SOWK 5678	Advanced Practicum 1	6
SOWK 5679	Advanced Practicum 2	6

#### Social Work Elective



Choose from the following:	6
SOWK 5312 Social Work Intervention in Drug Addiction & Abuse	
SOWK 5315 Social Work Intervention in Child Abuse & Neglect	
SOWK 5328 Interdisciplinary Perspectives on Aging	
SOWK 5332 Helping Troops Transition Back to their Families and Communities: The Invisible Wounds of War	
SOWK 5339 Selected Topics in Social Work	
Total Hours	36

## Field Practicum

Field practicum (internship) involves the student intern working in a social service agency under the intensive supervision of a licensed master social worker. All regular track students (full- and part-time) must complete a total of 20 semester credit hours of field practicum, while advanced standing students must complete a total of 12 semester credit hours of field practicum. Regular track students complete a first-year field practicum while concurrently enrolled in other classes. In the second year, for both full-time regular track and advanced standing students, field practicum occurs during the spring term. Part-time students may spread second-year field practicum across two terms.

Master's level courses in Social Work: SOWK

## Courses Offered

### Social Work (SOWK)

#### SOWK 5308. Human Behavior in Individual and Family Social Environments.

This foundation graduate course presents individual and family dynamics across the life cycle, centering on human development, individual and group strengths, and the effects of cultural diversity. It enhances critical thinking and assessment skills about human behavior in social environments, and incorporates material on professional values, ethics, and social justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5309. Human Behavior in Local and Global Social Environments.

This foundation graduate course explores human functioning in the environment by studying families, groups, communities, organizations, and societies in local and global contexts. Through learning content on diversity, populations at risk, and social and economic justice, students build critical thinking and assessment skills using developmental and eco-systems frameworks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5310. Social Welfare Policy and Services.

This foundation course studies the United States' social welfare system, emphasizing how social welfare policies affect diverse populations. Topics include social welfare history; and policy development, implementation, evaluation, and values. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5312. Social Work Intervention in Drug Addiction & Abuse.

This elective course focuses on commonly used and abused drugs as well as the dynamics and treatment of addiction. It emphasizes social work intervention aimed at addiction prevention and treatment. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5313. Foundation Social Work Practice I.

This foundation course explores generalist social work theory and practice methodology in problem-solving with individuals, families, and groups, emphasizing data collection, assessment, intervention planning, and evaluation. Prerequisite: Admission to the M.S.W. degree program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5314. Foundation Social Work Practice II.

This foundation skill-development course emphasizes generalist social work practice with task groups, organizations, and communities.

Prerequisite: Admission to the M.S.W. degree program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5315. Social Work Intervention in Child Abuse & Neglect.

This elective course considers child welfare services available to abused and neglected children in their own homes, in substitute care, and through the community, emphasizing social work intervention with children and their families. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5316. Foundation Social Work Practice III.

This foundation course develops the student's interpersonal and communication skills with clients and other professionals. Students must demonstrate competence in interviewing, assessment, and planning skills. Students learn to collect data to support assessment, plan intervention, and evaluate practice. Prerequisites: SOWK 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5317. Social Work Research.

This foundation course builds introductory scientific research skills in critical thinking and knowledge of program and practice evaluation. It prepares students to read, interpret, and critique research with skepticism and rigor and to perform various research and social work practice activities. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SOWK 5319. Diagnostic Assessment.

This advanced course examines how individuals, families, and groups interact with the social environment, emphasizing mental health and adaptive capacity, theories of the etiology and development of mental and emotional disorders, and how culture affects mental health.

Prerequisites: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOWK 5320. Advanced Administrative Leadership Practice I: Introduction to Management.**

This advanced skill-development course emphasizes social work practice in managing small and large organizations. Students develop knowledge and skills in social work management and supervision in non-profit and public organizations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5322. Advanced Social Policy and Social Justice.**

This advanced course, a study of social legislation affecting disadvantaged persons, emphasizes policy analysis, values, and advocacy through studying social policy history; developing, implementing, and evaluating policy; and influencing social and economic justice. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5323. Advanced Social Work Research.**

This advanced course builds knowledge and skills for systematically evaluating programs and practice. It enhances effective and ethical social work practice by teaching skills necessary to design, implement, and empirically assess intervention with client and programs. Prerequisites: SOWK 5317, advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5324. Advanced Direct Practice with Families.**

This advanced course focuses on theories, research, and models of practice with families. It emphasizes a systems orientation to assessment and intervention, and integrates issues of self-awareness and human diversity. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5325. Advanced Administrative Leadership Practice III: Challenges and Innovations.**

This advanced course expands knowledge and skills by exploring how theories, supervision and management interventions, and social work values are applied to diverse organizational environments. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5326. MC/MP Advanced Direct Practice with Individuals.**

This advanced course examines intervention theories and builds specialized skills for effective, ethical practice with individuals. It examines how culture influences individuals, and discusses how to assess individuals from multiple perspectives. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5327. Advanced Direct Practice with Groups.**

This advanced course develops effective, ethical group practice skills, including assessment from multiple perspectives, facilitation of group process and intervention, evaluation, and addressing needs of diverse populations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5328. Interdisciplinary Perspectives on Aging.**

This interdisciplinary course provides a graduate-level foundation in knowledge and skills used to address a wide range of needs among the aging population, their families, and support systems. Biophysical, psychosocial, and environmental perspectives will be integrated into development of culturally competent approaches to work with elders in many fields. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5329. Organizational Development.**

This advanced course examines organizational and inter-organizational social service delivery contexts; how funding, mandate, and organizational arrangements influence services; and factors to consider in modifying existing organizations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5332. Helping Troops Transition Back to their Families and Communities: The Invisible Wounds of War.**

The course examines topics at the individual, family, group, organizational, and community levels related to troops who are returning from current combat operations and their families. It reviews the needs, community resources, and policies in place for helping them and their families make this transition. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5334. Advanced Administrative Leadership Practice II: Resource Development.**

This advanced course emphasizes grant-writing and marketing in non-profit organizations. It builds knowledge, roles, and skills to extend organizational resources for effective, ethical social work practice and programs. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5339. Selected Topics in Social Work.**

Students study relevant social work topics in depth. Topics, such as social work in schools or in health care, are selected according to students' needs and professional trends. Repeatable for credit. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5360. Directed Study in Social Work.**

This one-semester course highlights individualized reading, independent study and projects, and guided instruction. It is offered by invitation of the professor and with the consent of the MSW Coordinator. It may not be repeated for credit. Prerequisites: Graduate standing and the approval of the MSW Coordinator and School Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5370. Advanced Program Planning and Grant-Based Resource Development.**

This advanced course emphasizes social work practice in building and developing non-profit and public human services organizations. Course topics include: determining organizational needs and priorities; identifying resources to address needs and priorities; and pursuing grant-funded resources to address organizational needs. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5371. Advanced Assessment, Leadership, and Supervision in Social Service Organizations.**

This advanced course focuses on observational and interview-based evaluations of organizational functioning related to change, diversity, ethical decision-making, budgeting, and implementation of action plans. The course also focuses on development of supervisory strategies to effectively lead and transform an organization. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5372. Advanced Diagnostic Assessment and Intervention with Individuals.**

This advanced course focuses on culturally relevant diagnostic assessment of and intervention with individuals based on current theory. The course emphasizes critical analysis of contemporary mental health practice using a psychosocial framework. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5373. Advanced Intervention with Families and Groups.**

This advanced course focuses on culturally-relevant knowledge and skills for theory-based, therapeutic assessment and intervention with diverse families and groups. The course emphasizes systemic, critical analysis of contemporary mental health practice using a psychosocial, strengths-based framework. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5410. Foundation Field I (Concurrent).**

This foundation course consists of supervised beginning generalist social work practice in agencies for a minimum of 250 clock hours, applying classroom knowledge to work with individuals, families, groups, and communities. Prerequisites: Admission to MSW degree program and completed field application process

**4 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5411. Foundation Field II (Concurrent).**

This second foundation course continues supervised generalist social work practice in agencies for a minimum of 250 clock hours, applying classroom knowledge to work with individuals, families, groups, and communities. Prerequisites: SOWK 5410 and Field Coordinator approval

**4 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5612. Direct Practice Field I.**

This course offers supervised advanced direct social work practice opportunities to apply classroom knowledge to interventions with individuals, families, and groups in agencies for a total of 300 clock hours. Prerequisites: Completion of field application process and completion of MSW class work

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5613. Direct Practice Field II.**

This course continues supervised advanced direct social work practice opportunities to apply classroom knowledge to interventions with individuals, families, and groups in agencies for a total of 300 clock hours. Prerequisites: Field Coordinator approval

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5622. Administrative Leadership Field I.**

This course offers supervised advanced administrative leadership social work practice opportunities to apply classroom knowledge to interventions with public and non-profit social agencies for a total of 300 clock hours. Prerequisites: Completion of field application process and completion of MSW class work

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5623. Administrative Leadership Field II.**

This course continues supervised advanced administrative leadership social work practice opportunities to apply classroom knowledge to interventions with public and non-profit social agencies for a total of 300 clock hours. Prerequisites: Field Coordinator approval

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5678. Advanced Practicum 1.**

This course is the first part of the advanced MSW practicum in which students participate in supervised social work practice internships in community agencies and facilities. Students apply classroom knowledge to activities and interventions serving individuals, families, groups, and communities for a minimum of 300 semester clock hours. Departmental approval required to enroll. Prerequisite: Completion of all MSW coursework. Co-requisite: SOWK 5679 unless enrolled in part-time student status

**6 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5679. Advanced Practicum 2.**

This course is the second in the MSW advanced/final practicum sequence. This course builds on the experiential learning in Advanced Practicum 1, and continues the application of classroom knowledge. The Advanced Practicum 2 focuses on more complex, micro, mezzo, and/or macro learning in diverse community social service agencies and/or facilities for 300 semester clock hours. Departmental approval required to enroll. Prerequisite: Completion of all MSW coursework. Co-requisite: SOWK 5678 unless enrolled in part-time student status

**6 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Emmett and Miriam McCoy College of Business Administration

**Dean**

Denise T. Smart, Ph.D.  
McCoy Hall Room 530  
T: 512.245.2311 F: 512.245.8375  
<http://www.mccoy.txstate.edu/>

**Associate Dean**

William T. Chittenden, Ph.D.

**Associate Dean**

Mayur R. Mehta, Ph.D.

**Assistant Dean**

Kent Hamilton

**Department Chairs**

Accounting—Ann L. Watkins, Ph.D.  
Computer Information Systems and Quantitative Methods—Ricki G. Ingalls, Ph.D.  
Finance and Economics—R. Todd Jewell, Ph.D.  
Management—Paula L. Rechner, Ph.D.  
Marketing—Raymond P. Fisk, Ph.D.

Named on February 27, 2004 in honor of the generous support of Mr. and Mrs. Emmett McCoy, Texas State's Emmett and Miriam McCoy College of Business Administration provides broad-based undergraduate and master's-level educational programs that produce graduates with the values, knowledge, and skills to help them excel in a diverse, globally-competitive environment.

The McCoy College of Business Administration is dedicated to pursuing and providing the knowledge and skills that prepare graduate students for key management responsibilities in today's complex and dynamic global business environment. The School challenges students to develop the knowledge, skills, and abilities necessary to advance their personal and professional objectives through an environment of teaching excellence, complemented by scholarly research and service.

## Department of Accounting

McCoy Hall Room 431  
T: 512.245.2566 F: 512.245.7973  
<http://www.accounting.mccoy.txstate.edu/>

## Mission Statement

Our mission is to offer quality, student-centered accounting programs for graduate students. Our primary goal is to prepare students for

professional careers in public accounting, industry, government, nonprofit, and other organizations. We strive to:

- Deliver graduate programs that prepare students with diverse undergraduate degrees for professional careers in accounting, including eligibility for licensure by State Boards of Public Accountancy.
- Provide innovative quality instruction and curricula that offer strong conceptual foundations and technical skills in accounting. Our programs emphasize critical thinking, ethical decision-making, technology usage, and communication skills.
- Engage in intellectual contributions that have impact in the areas of discipline-based scholarship, contributions to practice and learning, and pedagogical research.
- Provide service to our department, college, university, and other academic organizations. This includes engagement with the accounting profession and accounting student organizations. We also strive to build and maintain professional relationships among students, alumni, the accounting profession, and other stakeholders.

## Master of Accountancy (M.Acy.)

- Major in Accounting (p. 631)
- Major in Accounting B.B.A./M.Acy. (5-year Integrated) (p. 636)

## Master of Science (M.S.)

- Major in Accounting and Information Technology (p. 636)

## Master of Accountancy (M.Acy.), Major in Accounting

### Major Program

The master of accountancy (M.Acy.) program is designed to broaden the educational experience of individuals preparing for a career in the public accounting profession. Students explore the social, ethical, and environmental effects of accounting information on those who rely on it for their decision making needs. The M.Acy. program can be used to satisfy the 150-hour education requirement for the Certified Public Accountant (CPA) exam in Texas.

## Admission Policy

Before applying to the program, applicants must have completed certain background courses. ACC 3313 Intermediate I and ACC 3314 Intermediate II must be completed with a "B" or better and at least 6 additional hours of upper level accounting courses from the list below must be completed for a total of 12 upper level accounting hours:

ACC 3363	Governmental Accounting
ACC 3365	Cost/Managerial Accounting
ACC 3385	Accounting Systems
ACC 4313	Auditing and Internal Controls
ACC 4328	Survey of Income Tax

All seven courses listed above, or their equivalent, must be completed before taking ACC 5389 Corporate Governance and Ethics.

For more information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/acct.html>.

## Degree Requirements

The requirements for the M.Acy. degree program consist of satisfactory completion of the following:

1. Four M.Acy. core courses in accounting.
2. BLAW 5368J Commercial Law
3. At least three graduate accounting elective courses.
4. At least two graduate business elective course.
5. Successful completion of the comprehensive examination.

The M.Acy. degree consists of three requirements: background courses, graduate core courses, elective courses. The M.Acy. degree does not have a thesis requirement but does have a comprehensive exit exam requirement.

### Graduate Core Courses

In addition to satisfying the background courses, all M.Acy. students must complete 15 semester hours of graduate core courses. Students must satisfy all prerequisites of a graduate course before enrolling in the course.

### Elective Courses

In addition to the 15 semester hours of core courses, students must complete 15 hours of graduate-level accounting and business electives. **Students must satisfy all prerequisites of an elective course before enrolling, including any undergraduate accounting prerequisites.**

#### M.Acy. Course Work Requirements (no specialization)

##### M.Acy. Core Courses

ACC 5316	Advanced Accounting	3
ACC 5350	Professional Accounting Research	3
ACC 5366	Business Entity Taxation	3
ACC 5389	Corporate Governance and Ethics	3
BLAW 5368J	Commercial Law	3

##### M.Acy. Elective Courses

Choose nine hours from the following:		9
ACC 5352	Financial Statement Reporting and Analysis	
ACC 5355	IT Auditing	
ACC 5362	Cost and Managerial Accounting Theory	
ACC 5367	Seminar in Auditing	
ACC 5369	Special Studies in Accounting	
ACC 5370	Internship in Accounting	
ACC 5373	Fraud Detection and Prevention	
ACC 5375	Business Information Consulting	
ACC 5390A	International Accounting	
ACC 5390F	Mergers, Acquisitions, and Consolidations Taxation	
ACC 5390G	Sustainability Reporting	

##### Graduate Business Electives

Choose six hours from the following:		6
BLAW 5310	The Employment Relationship	
BLAW 5368A	Judicial and Legislative Trends in the Legal Environment of Business	
BLAW 5368B	Law and Ethics in the Business Environment	
BLAW 5368F	Business Law for Entrepreneurs	
BLAW 5368G	Legal Issues in International Business Law	

BLAW 5368H	Legal Issues of Sustainability and Responsibility	
BLAW 5368K	Business Organizations and Government Regulations	
CIS 5355	Database Management Systems	
CIS 5356	Business Telecommunications	
CIS 5358	IT Systems Project Management	
CIS 5360	E-Commerce: Strategies, Technologies, and Applications	
CIS 5364	Data Warehousing and Mining	
CIS 5368	Information Security	
CIS 5370	Enterprise Resource Planning	
ECO 5310	International Economics	
ECO 5320	Emerging Market Economies	
FIN 5332	Portfolio Theory and Capital Markets	
FIN 5337	International Finance	
FIN 5338	International Investments and Financial Management	
FIN 5347C	Real Estate Investment	
MGT 5310	Organizational Change Management	
MGT 5311	Process Improvement Management in Organizations	
MGT 5312	Seminar in Management	
MGT 5315	New Venture Management	
MGT 5318	Cross-Cultural Management	
MGT 5321	Supply Chain Management	
MGT 5325	Managing Business Creativity	
MGT 5330	Seminar in Human Resource Management	
MGT 5335	New Venture Launch	
MGT 5345	Integrative Field Project	
MGT 5375	International Management-Latin America	
MGT 5390	Business Research Methods	
MGT 5391	Managing the Communication Process	
MGT 5395	Graduate Business Internship	
MKT 5311	Current Developments in Marketing	
MKT 5322	Marketing Research Methods	
MKT 5325	Global Marketing and the Value Chain	
MKT 5330	International Marketing	
MKT 5331	Integrated Marketing Communications	
MKT 5335	Services Marketing	
MKT 5395	Independent Study in Marketing	
MKT 5397A	Sports Marketing	
MKT 5397B	Social Marketing	
QMST 5332	Quantitative Methods	
QMST 5335	Introduction to Forecasting and Simulation	
Total Hours		30

M.Acy. students must complete a comprehensive examination at the end of the program to satisfy university requirements.

#### M.Acy. with a Specialization in Auditing

##### M.Acy. Core Courses

ACC 5316	Advanced Accounting	3
ACC 5350	Professional Accounting Research	3
ACC 5366	Business Entity Taxation	3



ACC 5389	Corporate Governance and Ethics	3
BLAW 5368J	Commercial Law	3

**M.Acy. Elective Courses**

ACC 5320	Auditing	3
ACC 5355	IT Auditing	3
ACC 5371	Accounting Information Systems	3
ACC 5370	Internship in Accounting	3

or ACC 5373 Fraud Detection and Prevention

**Graduate Accounting or Business Electives**

Graduate Business Course		3
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Total Hours 30

**M.Acy. with a Specialization in Corporate Accounting and Control****M.Acy. Core Courses**

ACC 5316	Advanced Accounting	3
ACC 5350	Professional Accounting Research	3
ACC 5366	Business Entity Taxation	3
ACC 5389	Corporate Governance and Ethics	3
BLAW 5368J	Commercial Law	3

**M.Acy. Elective Courses**

ACC 5320	Auditing	3
ACC 5362	Cost and Managerial Accounting Theory	3
B A 5352	Developing the Financial Perspective of the Firm	3
ACC 5370	Internship in Accounting	3

or FIN 5387 Managerial Finance

**Graduate Accounting or Business Electives**

Graduate Business Course		3
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Total Hours 30

**M.Acy. with a Specialization in Information Technology****M.Acy. Core Courses**

ACC 5316	Advanced Accounting	3
ACC 5350	Professional Accounting Research	3
ACC 5366	Business Entity Taxation	3
ACC 5389	Corporate Governance and Ethics	3
BLAW 5368J	Commercial Law	3

**M.Acy. Elective Courses**

ACC 5355	IT Auditing	3
ACC 5371	Accounting Information Systems	3
ACC 5375	Business Information Consulting	3
ACC 5370	Internship in Accounting	3
or CIS 5355	Database Management Systems	
or CIS 5358	IT Systems Project Management	
or CIS 5364	Data Warehousing and Mining	
or CIS 5368	Information Security	
or CIS 5370	Enterprise Resource Planning	

**Graduate Accounting or Business Electives**

Graduate Business Course		3
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Total Hours 30

**M.Acy. with a Specialization in Taxation****M.Acy. Core Courses**

ACC 5316	Advanced Accounting	3
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ACC 5350	Professional Accounting Research	3
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ACC 5366	Business Entity Taxation	3
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ACC 5389	Corporate Governance and Ethics	3
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BLAW 5368J	Commercial Law	3
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**M.Acy. Elective Courses**

ACC 5372	Tax Research	3
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ACC 5377	Partnership Taxation	3
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ACC 5378	Tax Practice, Procedures, Audits and Controversy	3
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ACC 5370	Internship in Accounting	3
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Or Tax Elective

**Graduate Accounting or Business Electives**

Graduate Business Course		3
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Total Hours 30

**Courses for CPA Eligibility**

All graduates will have the 30 upper-level accounting hours and ethics course required to sit for the CPA Exam in Texas, however, graduates may still need 24 hours of related business course work. To be eligible to sit for the CPA exam in Texas, the candidate must have 24 hours of upper level business courses. The 24 hours may be completed at a community college or university, at the undergraduate or graduate level. There is a limit of 6 hours in any one area (i.e., management, economics, business law, etc.). Additionally, business statistics and communication may be used to meet this requirement. For further information, please consult with the Texas State Board of Public Accountancy <http://www.tsbpa.state.tx.us/>.

Master's level courses in Accounting: ACC

**Courses Offered  
Accounting (ACC)****ACC 5303. Fundamental Accounting.**

An intensive study of financial accounting procedures, concepts, and reports utilized in making business decisions, including preparation and interpretation of financial statements, measurement of cash flows, and financial forecasting. May not be counted as an elective MBA course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ACC 5315. Selected Topics in Financial Accounting.**

The study of specialized financial accounting topics, existing and prospective, necessary for an advanced understanding of financial reporting. Topics include: pensions and post-retirement benefits, deferred taxes, derivatives, share-based payments, interim and segment reporting and emerging issues of the Emerging Issues Task Force. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5316. Advanced Accounting.**

A study of accounting for business combinations and consolidated financial statements. Additional selected topics may include accounting for multinational operations, interim reporting, SEC reporting, partnership and governmental and not-forprofit accounting. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ACC 5320. Auditing.**

A study of the underlying theory of external financial auditing including professional ethics, auditing standards and procedures, and the role of auditor's judgment. (Suggested for CPA eligibility). Prerequisites: ACC 3314 and ACC 4313 with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5340. Individual Income Tax.**

A study of the tax concepts and issues involved in an individual's employment and personal life, and in sole proprietorships, property transactions, tax administration and tax practice. Regulatory and ethical issues are incorporated into the discussion. This course may not count as an elective in any master's program in the McCoy College of Business. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5350. Professional Accounting Research.**

This course provides a study of the sources of authoritative standards in financial accounting. The course develops procedures for identifying the applicable accounting issues, locating appropriate authority, and communicating the results of professional research. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5352. Financial Statement Reporting and Analysis.**

A study of financial statement reporting and analysis. Use of tools and skills will be used to analyze and interpret financial reports for assessing financial performance of firms to facilitate investment, lending, and other financial decisions in a variety of business contexts. Prerequisite: ACC 3313, or ACC 5303, or ACC 5361 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5355. IT Auditing.**

A study of the IT audit: the process of collecting and evaluating evidence of an IT system practices and operations. The course develops understanding of the procedures to test whether the systems are safeguarding assets, maintaining data security and operating effectively and efficiently. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5361. Accounting Analysis for Managerial Decision Making.**

Use of accounting information for improving managerial decision making. Emphasis is on understanding the practice of business management, budgeting, cost behavior, and operational, internal, and management control. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5362. Cost and Managerial Accounting Theory.**

A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems. Prerequisites: ACC 3365 or ACC 5361 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5366. Business Entity Taxation.**

Federal income tax provisions affecting business decisions, with an emphasis on C Corporations, Limited Liability Companies, and Partnerships. An introduction to the choice, formation, organization, operation and distribution rules of the preceding business entities. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5367. Seminar in Auditing.**

A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards of external auditing, internal auditing, governmental auditing, and international auditing, including exposure to current developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures, and the use of the computer as an audit tool. Prerequisite: ACC 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5369. Special Studies in Accounting.**

Directed study and research on selected accounting topics, including the development of accounting thought and research in; advanced tax topics, international accounting, professional ethics and managerial and financial accounting. Courses will be offered as independent instruction. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5370. Internship in Accounting.**

Experiential learning during which the students work in accounting. This work experience may be in public, industry, or governmental accounting units. The student is immersed in a variety of intensive work assignments with increasing levels of responsibility. Students taking ACC 5370 for credit may not take ACC 5680 for credit. Graded on a credit (CR), no credit (F) basis. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ACC 5371. Accounting Information Systems.**

This course studies various accounting information systems technologies used to enhance business process operations. It also explores management of risks and controls, and management of information resources. Prerequisite: ACC 3385 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5372. Tax Research.**

An examination of the sources of tax authority, which include its primary sources (legislative, judicial, and administrative), as well as secondary sources. The course also develops procedures for identifying the applicable tax issues, locating appropriate tax authority, and communicating the results of tax research. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5373. Fraud Detection and Prevention.**

This course provides an in-depth study of how and why fraud is committed. It explores red flags that may help in detecting fraudulent activities, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5375. Business Information Consulting.**

Integrative capstone for the MSAIT program using principles and concepts applied through the analysis and presentation of case studies dealing with current issues or emerging trends in the fields of accounting and information technology for the accounting professionals serving as consultants. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5377. Partnership Taxation.**

A comprehensive study of the tax implications of conducting a business as a partnership or as a limited liability company. Life-cycle analysis and tax planning considerations are emphasized. Prerequisite: ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5378. Tax Practice, Procedures, Audits and Controversy.**

This course focuses on the procedural aspects of tax planning and tax return preparation. Coverage includes IRS enforcement tools and corresponding taxpayer rights, audits and appeals, civil and criminal penalties, and statutory relief provisions. Professional standards and ethical considerations in tax practice are emphasized. Prerequisite: ACC 5366 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5379. State and Local Taxation.**

This is a survey of state and local income tax systems emphasizing income and franchise taxes on individuals and business entities, sales and use taxes, and property taxes. Coverage includes business nexus and multistate allocation and apportionment issues. Prerequisite: ACC 4328 or ACC 5340. Corequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5381. Advanced Business and Regulation Concepts.**

An in-depth study of business environment and regulation concepts in preparation for professional accounting exams. Either ACC 5380 or 5381 must be taken in the final semester of the Master of Accounting program. Prerequisites: ACC 5360 and ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5383. Enterprise Resource Planning Systems.**

The use of information technology for integrating enterprises for operational control and strategic business intelligence is examined via ERP applications in customer relationship management, accounting and finance, purchasing and production control, sales and marketing, and human resource management. Managerial issues surrounding the selection, design and implementation of ERP systems are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5384. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5385. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design, and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Student will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5389. Corporate Governance and Ethics.**

A study of the corporate governance and ethical issues in accounting, including ethical reasoning, integrity, objectivity, independence, core values and professional issues. Prerequisites: ACC 3314 (or equivalent) with a grade of "B" or better, and ACC 3363, ACC 3365, ACC 3385, ACC 4313, and ACC 4328 or ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5390A. International Accounting.**

A study of the impact of international business activity on the profession of accounting. The course will investigate the development of international accounting standards and compare those standards to existing United States standards. Students taking ACC 4390A for credit may not take ACC 5390A for credit. Prerequisite: ACC 5315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**ACC 5390F. Mergers, Acquisitions, and Consolidations Taxation.**

This course on mergers, acquisitions and consolidations will examine the tax ramifications and corporate strategies considerations of buying, selling and combining different companies; the consolidated tax return consequences of those affiliated groups; and the residual outcomes and tax attributes that result from corporate divisions. Prerequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ACC 5390G. Sustainability Reporting.**

This course on sustainability reporting strategies will examine analytical methods and reporting techniques used by for-profit and non-profit companies to support sustainable operations. Prerequisite: ACC 5303 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Bachelor of Business Administration/ Master of Accountancy (M.A.cy.), Major in Accounting

### General Requirements

The B.B.A./M.Acy. 5-year Integrated Program

The Department of Accounting offers Texas State undergraduate students majoring in accounting the opportunity to earn their B.B.A. and their M.Acy. simultaneously in the B.B.A./M.Acy. 5-year integrated program. The integrated programs allows students to complete the two degrees quicker than if they were completed consecutively.

Please be advised that students will receive both the B.B.A. and the M.Acy. upon completion of **both** degrees. **Therefore, it is expected that students admitted to the 5-year integrated program will stay in the program until completion.**

A Texas State undergraduate student majoring in accounting may apply to the M.Acy. program once the student has completed the following:

1. at least 90 credit hours
2. at least 12 hours of upper level accounting courses (these 12 hours must include ACC 3313 and ACC 3314 with a grade of "B" or better)

The GMAT or GRE score and essay will be waived for a Texas State accounting major who:

1. has earned a 3.2 GPA or higher in the last 60 hours of course work
2. has earned a GPA of 3.4 or higher in upper level accounting courses; and
3. provides at least two satisfactory reference forms from Texas State faculty

### Degree Requirements

For degree requirements, please click here (p. 143) or go to the Undergraduate Catalog.

## Master of Science (M.S.), Major in Accounting and Information Technology

### Major Program

The master of science (M.S.) in accounting and information technology is a cross-department curriculum comprised of accounting and information technology core courses, prescribed accounting and information technology electives, and open graduate business or accounting electives. The program does not have a thesis requirement; however, students must complete a comprehensive examination at the end of the program to satisfy university requirements. Applicants with undergraduate degrees in disciplines other than business or from a non-AACSB accredited university could be required to complete additional background course work. Applicants to the M.S. degree program who hold an undergraduate degree from an AACSB accredited university will normally require 36 semester hours of graduate course credit to complete the program.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/ait.html>.

## Degree Requirements

### Background Courses

The purpose of background courses is to provide a strong base of knowledge for advanced business and accounting studies. Background courses may be waived for students who have successfully completed and achieved a grade of "B" or higher on previous course work addressing **current** developments in the content area. The background course requirement is composed of the following courses:

ACC 2361	Introduction to Financial Accounting <sup>1</sup>	3
ACC 3313	Intermediate Accounting I <sup>2</sup>	3
CIS 3374	System Analysis and Design <sup>1</sup>	3

<sup>1</sup> Must be completed before admission to the graduate program.

<sup>2</sup> Students must make a grade of "B" or better to continue in graduate program.

Background courses cannot be used to fulfill the 36 hours of M.S. core and elective courses. The equivalent undergraduate courses also may be taken at any accredited four-year college or university. Information regarding transfer work is identified in the Course Credit (p. 568) section of this catalog.

Applicants who have not met the admission standards and who must satisfy background course requirements may be admitted as non-degree seeking students to take **undergraduate courses only**. While under the non-degree seeking student enrollment status, students may take whatever actions that may be required to satisfy the admission requirements. See the Non-Degree Seeking Applicants (p. 561) section of this catalog for further information regarding enrolling as a non-degree seeking student.

## Course Work Requirements

### Core Courses <sup>1</sup>

ACC 5362	Cost and Managerial Accounting Theory	3
ACC 5371	Accounting Information Systems	3
ACC 5375	Business Information Consulting	3
CIS 5355	Database Management Systems	3
CIS 5368	Information Security	3
CIS 5370	Enterprise Resource Planning	3

### Recommended Accounting and Information Technology Electives

Choose 12 hours from the following: <sup>2</sup> 12

ACC 5352	Financial Statement Reporting and Analysis	
ACC 5355	IT Auditing	
ACC 5370	Internship in Accounting	
ACC 5373	Fraud Detection and Prevention	
CIS 5360	E-Commerce: Strategies, Technologies, and Applications	
CIS 5364	Data Warehousing and Mining	
CIS 5358	IT Systems Project Management	

### Graduate Business Electives

Choose 6 hours of graduate elective course work <sup>3</sup>	6
Total Hours	36

- <sup>1</sup> Students must satisfy all prerequisites of a graduate course before enrolling. These prerequisites include the background course or its equivalent and undergraduate accounting courses, if applicable.
- <sup>2</sup> At least one but not more than two of the four must be an Accounting course.
- <sup>3</sup> These courses must be chosen in consultation with the graduate advisor for the McCoy College of Business Administration. Students must satisfy all prerequisites of an elective course before enrolling, including any undergraduate accounting prerequisites.

Master's level courses in Accounting: ACC (p. 637), CIS (p. 639)

## Courses Offered

### Accounting (ACC)

#### ACC 5303. Fundamental Accounting.

An intensive study of financial accounting procedures, concepts, and reports utilized in making business decisions, including preparation and interpretation of financial statements, measurement of cash flows, and financial forecasting. May not be counted as an elective MBA course.

This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### ACC 5315. Selected Topics in Financial Accounting.

The study of specialized financial accounting topics, existing and prospective, necessary for an advanced understanding of financial reporting. Topics include: pensions and post-retirement benefits, deferred taxes, derivatives, share-based payments, interim and segment reporting and emerging issues of the Emerging Issues Task Force. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5316. Advanced Accounting.

A study of accounting for business combinations and consolidated financial statements. Additional selected topics may include accounting for multinational operations, interim reporting, SEC reporting, partnership and governmental and not-forprofit accounting. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5320. Auditing.

A study of the underlying theory of external financial auditing including professional ethics, auditing standards and procedures, and the role of auditor's judgment. (Suggested for CPA eligibility). Prerequisites: ACC 3314 and ACC 4313 with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5340. Individual Income Tax.

A study of the tax concepts and issues involved in an individual's employment and personal life, and in sole proprietorships, property transactions, tax administration and tax practice. Regulatory and ethical issues are incorporated into the discussion. This course may not count as an elective in any master's program in the McCoy College of Business. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5350. Professional Accounting Research.

This course provides a study of the sources of authoritative standards in financial accounting. The course develops procedures for identifying the applicable accounting issues, locating appropriate authority, and communicating the results of professional research. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5352. Financial Statement Reporting and Analysis.

A study of financial statement reporting and analysis. Use of tools and skills will be used to analyze and interpret financial reports for assessing financial performance of firms to facilitate investment, lending, and other financial decisions in a variety of business contexts. Prerequisite: ACC 3313, or ACC 5303, or ACC 5361 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5355. IT Auditing.

A study of the IT audit: the process of collecting and evaluating evidence of an IT system practices and operations. The course develops understanding of the procedures to test whether the systems are safeguarding assets, maintaining data security and operating effectively and efficiently. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5361. Accounting Analysis for Managerial Decision Making.

Use of accounting information for improving managerial decision making. Emphasis is on understanding the practice of business management, budgeting, cost behavior, and operational, internal, and management control. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5362. Cost and Managerial Accounting Theory.

A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems. Prerequisites: ACC 3365 or ACC 5361 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### ACC 5366. Business Entity Taxation.

Federal income tax provisions affecting business decisions, with an emphasis on C Corporations, Limited Liability Companies, and Partnerships. An introduction to the choice, formation, organization, operation and distribution rules of the preceding business entities. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**ACC 5367. Seminar in Auditing.**

A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards of external auditing, internal auditing, governmental auditing, and international auditing, including exposure to current developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures, and the use of the computer as an audit tool. Prerequisite: ACC 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5369. Special Studies in Accounting.**

Directed study and research on selected accounting topics, including the development of accounting thought and research in; advanced tax topics, international accounting, professional ethics and managerial and financial accounting. Courses will be offered as independent instruction. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5370. Internship in Accounting.**

Experiential learning during which the students work in accounting. This work experience may be in public, industry, or governmental accounting units. The student is immersed in a variety of intensive work assignments with increasing levels of responsibility. Students taking ACC 5370 for credit may not take ACC 5680 for credit. Graded on a credit (CR), no credit (F) basis. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ACC 5371. Accounting Information Systems.**

This course studies various accounting information systems technologies used to enhance business process operations. It also explores management of risks and controls, and management of information resources. Prerequisite: ACC 3385 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5372. Tax Research.**

An examination of the sources of tax authority, which include its primary sources (legislative, judicial, and administrative), as well as secondary sources. The course also develops procedures for identifying the applicable tax issues, locating appropriate tax authority, and communicating the results of tax research. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5373. Fraud Detection and Prevention.**

This course provides and in-depth study of how and why fraud is committed. It explores red flags that may help in detecting fraudulent activities, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5375. Business Information Consulting.**

Integrative capstone for the MSAIT program using principles and concepts applied through the analysis and presentation of case studies dealing with current issues or emerging trends in the fields of accounting and information technology for the accounting professionals serving as consultants. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5377. Partnership Taxation.**

A comprehensive study of the tax implications of conducting a business as a partnership or as a limited liability company. Life-cycle analysis and tax planning considerations are emphasized. Prerequisite: ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5378. Tax Practice, Procedures, Audits and Controversy.**

This course focuses on the procedural aspects of tax planning and tax return preparation. Coverage includes IRS enforcement tools and corresponding taxpayer rights, audits and appeals, civil and criminal penalties, and statutory relief provisions. Professional standards and ethical considerations in tax practice are emphasized. Prerequisite: ACC 5366 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5379. State and Local Taxation.**

This is a survey of state and local income tax systems emphasizing income and franchise taxes on individuals and business entities, sales and use taxes, and property taxes. Coverage includes business nexus and multistate allocation and apportionment issues. Prerequisite: ACC 4328 or ACC 5340. Corequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5381. Advanced Business and Regulation Concepts.**

An in-depth study of business environment and regulation concepts in preparation for professional accounting exams. Either ACC 5380 or 5381 must be taken in the final semester of the Master of Accounting program. Prerequisites: ACC 5360 and ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5383. Enterprise Resource Planning Systems.**

The use of information technology for integrating enterprises for operational control and strategic business intelligence is examined via ERP applications in customer relationship management, accounting and finance, purchasing and production control, sales and marketing, and human resource management. Managerial issues surrounding the selection, design and implementation of ERP systems are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5384. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ACC 5385. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design, and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Student will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5389. Corporate Governance and Ethics.**

A study of the corporate governance and ethical issues in accounting, including ethical reasoning, integrity, objectivity, independence, core values and professional issues. Prerequisites: ACC 3314 (or equivalent) with a grade of "B" or better, and ACC 3363, ACC 3365, ACC 3385, ACC 4313, and ACC 4328 or ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5390A. International Accounting.**

A study of the impact of international business activity on the profession of accounting. The course will investigate the development of international accounting standards and compare those standards to existing United States standards. Students taking ACC 4390A for credit may not take ACC 5390A for credit. Prerequisite: ACC 5315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**ACC 5390F. Mergers, Acquisitions, and Consolidations Taxation.**

This course on mergers, acquisitions and consolidations will examine the tax ramifications and corporate strategies considerations of buying, selling and combining different companies; the consolidated tax return consequences of those affiliated groups; and the residual outcomes and tax attributes that result from corporate divisions. Prerequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ACC 5390G. Sustainability Reporting.**

This course on sustainability reporting strategies will examine analytical methods and reporting techniques used by for-profit and non-profit companies to support sustainable operations. Prerequisite: ACC 5303 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Computer Information Systems (CIS)****CIS 5318. Information Technology in the Digital Economy.**

Provides an understanding of the issues involved in the strategic management of the information assets of organizations. Examines the issues and challenges that users face within the Information Technology (IT) management arena as part of a firm's business and IT strategy. Focus is on managerial rather than technical issues. Prerequisite:

B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5354. Decision Support Models in Management.**

This course is designed to give students the skills to design, implement, analyze, and present the results of an executive decision model. Students will gain hands-on experience both by preparing applications-oriented projects/cases and also by designing selected parts of DSS using Graphical User Interface (GUI) tools. Prerequisites: A strong working knowledge of personal computers and the Windows operating environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5355. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Students will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5356. Business Telecommunications.**

Explores the technology that is revolutionizing the manner in which business and government conduct their operations and the effects new developments in communication media have on computing systems. This course reflects the current state-of-the-art in data communication networking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5358. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5360. E-Commerce: Strategies, Technologies, and Applications.**

This course is designed to familiarize students with current and emerging e-commerce technologies. Topics include Internet technology for business advantage, reinventing the future of business through e-commerce, business opportunities in e-commerce, and social, political, global, and ethical issues associated with ecommerce

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5364. Data Warehousing and Mining.**

Familiarizes students with current and emerging data warehousing and mining technologies that are likely to play a strategic role in business organizations. Topics include data mining techniques, data warehouse development life cycle, data warehouse navigation, data quality, and performance issues. Prerequisites: QMST 5334, QMST 2333 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5368. Information Security.**

This course covers the analysis, design, development, implementation, and maintenance of information security systems. Topics include legal, ethical, professional, personnel issues; risk management; technology; cryptography; and physical security

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5370. Enterprise Resource Planning.**

The use of information technology in integrating enterprises for operational control and strategic business intelligence is examined via Enterprise Resource Planning (ERP) applications in customer relationships management, accounting, finance, purchasing, production control, sales, marketing, and human resource management. Emphasizes managerial issues surrounding the need, selection, and implementation of ERP systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5390A. Business Process Modeling.**

A study of tools and techniques for analyzing requirements of business process oriented systems. The course emphasizes a model driven approach and its usage for developing information controls. Unified Modeling Language (UML) is introduced to specify the user/system interaction, business logic, and data storage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CIS 5390B. Business Intelligence Project.**

Development of a system used for the implementation of analytics to diverse areas of interest, including: marketing, financial risk analysis, quality management in manufacturing, health care management, and geographic information systems. Prerequisite: CIS 5355, CIS 5364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Department of Management

McCoy Hall Room 524

T: 512.245.2571 F: 512.245.2850

<http://www.mgt.mccoy.txstate.edu/>

Our departmental faculty members have garnered impressive teaching, research, and service experiences across a wide variety of national, international, and global business contexts. As a result of their commitment to high quality endeavors, management faculty members have won numerous college, university, and national awards for scholarship, teaching, and service.

Balancing a focus on theory and practice, we have developed a management curriculum that includes courses in entrepreneurship, human resource management, international management, operations management, organizational behavior, and strategy. In addition, special topic courses allow our faculty to offer in-depth examination of a number of contemporary business issues such as business ethics and labor relations and negotiations.

## Master of Science (M.S.)

- Major in Human Resource Management (p. 640)

## Master of Science (M.S.), Major in Human Resource Management

### Major Program

The master of science (M.S.) in human resource management program is a flexible, part-time program designed to prepare people for successful careers in human resource management. In comparison to the M.B.A. program, which offers a broad-based business education, the M.S. program offers in-depth knowledge associated with the major aspects of human resource management. The M.S. curriculum has been designed to adhere to educational guidelines set forth by the Society for Human Resource Management (SHRM), the premier professional association for the human resource field.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/bhrm.html>.

### Course Work Requirements

#### Core Course Work

MGT 5330	Seminar in Human Resource Management	3
MGT 5336	Compensation and Benefits	3
MGT 5337	Organizational Staffing	3
MGT 5338	Human Resource Development	3
MGT 5339	International Human Resource Management	3
BLAW 5310	The Employment Relationship	3

#### Elective Course Work <sup>1</sup>

Choose 12 hours from the following:		12
MGT 5310	Organizational Change Management	
MGT 5314	Organizational Behavior and Theory	
MGT 5318	Cross-Cultural Management	
MGT 5390	Business Research Methods	
MGT 5391	Managing the Communication Process	
MGT 5395	Graduate Business Internship	

Total Hours 30

<sup>1</sup> Other 5000-level courses within the McCoy College of Business Administration may be selected with prior approval from the graduate advisor.

Master's level courses in Human Resource Management: MGT

### Management (MGT)

#### MGT 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5301. Graduate Assistant Development.**

Completion of this course is required as a condition of employment for graduate assistants. The course is seminar based and covers topics related to employment responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis. Prerequisite: McCoy College Graduate Assistant

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MGT 5310. Organizational Change Management.**

Presents an overview of the process of change in an organization and stresses the key issues involved in reengineering and renewing organizations. Problems dealing with stress and conflict during major change will be explored along with practical ideas on building effective teams to make change possible and sustainable

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5311. Process Improvement Management in Organizations.**

Learn existing and latest developments in process improvement techniques for continuous improvement and the role of quality as a system for establishing an organization's competitive advantage. Process mapping is emphasized and assessment of effectiveness in the interactions of the managerial and technical systems of organizations is also studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5312. Seminar in Management.**

Development of philosophy, strategy, and tactics in managing an enterprise. Administrative processes common to all enterprises, such as entrepreneurship, business and society, leadership and group behavior in organizations, business ethics, and international management. (Course may be repeated for credit with different course focus.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5313. Strategic Management.**

An integrative approach to policy formulation and administration (decision making) to achieve organization objectives. Should be taken the last semester of student's MBA program. Prerequisites: QMST 5334, MKT 5321, ACC 5361, FIN 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5314. Organizational Behavior and Theory.**

Organizational behavior and structure as influenced by environmental variables and system relationships. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5315. New Venture Management.**

This course provides an overview of the entrepreneurial process from the initial idea through start-up, growth, and harvest. Students learn how to write a business plan, manage all the elements of an entrepreneurial business, and develop a better understanding of the requirements of the entrepreneurial life path

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5318. Cross-Cultural Management.**

The global environment requires sensitivity to and the adaptation of leadership and management skills and practices, and the culture-bound differences in workplace behavior and attitudes. Explores how differences in cultural core values shape behavior and attitudes of workers, managerial colleagues, and negotiating partners. Prerequisites: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5321. Supply Chain Management.**

A variety of tools and frameworks provide students and understanding of the basis behind supply chain decision making. Topics include supply management concepts, demand-supply management, pull/push system, capacity and resource allocation, performance measurement, relationship assessment, and outsourcing in an integrated supply chain. Require graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5325. Managing Business Creativity.**

This course focuses on the means by which businesses and individuals foster and maintain their creative and innovative skills. Key topics include: idea generation and refinement, idea screening, prototype development, and feasibility analysis. Objectives are met through classroom exercises, case analysis, guest speakers, and individual and team projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5330. Seminar in Human Resource Management.**

A study of current developments and practices in human resource management, including employment laws; planning, recruitment and selection; training and development programs; wage and benefits administration; performance management, human relations and productivity; labor relations; safety and health; an current contributions to human resource management theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5333. Problems in Business Administration.**

The student is here given the opportunity to work in the field of his special interest, particularly in the subjects of accounting, business law, marketing, statistics, finance, and insurance. The course will be conducted by conferences between the student and instructors concerned. Problems will be assigned as nearly as possible for the needs of the individual student

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5335. New Venture Launch.**

The purpose of this class is to ensure students gain a full understanding of what it takes to start and grow a business. Students learn the process of creating a new venture from the inside by planning, organizing and launching an actual business. Prerequisite: MGT 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5336. Compensation and Benefits.**

This course addresses the rewards systems in organizations. Strategic and technical considerations in designing, administering and managing compensation and benefits plans in organizations, including job analysis and evaluation, wage levels and structures, legal issues, individual and group incentives, and benefits are considered. Prerequisites/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5337. Organizational Staffing.**

A study of the methods involved in recruitment and selection of employees with an emphasis on measurement, job analysis, performance appraisal, legal issues, and the role of human resource planning and strategy. This course relies on statistics to teach students to make reliable and valid employment decisions. Prerequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5338. Human Resource Development.**

A study of theoretical and applied perspectives on needs assessment, design, development delivery and evaluation of training and development as well as organizational change and development. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5339. International Human Resource Management.**

A study of challenges that decision makers consider when managing their human resources across the globe. Drawing on theories and models from cross-cultural and international management areas, this course covers such topics as globalization, culture, emerging international assignments, and expatriate recruitment, selection, training, repatriation, and career management. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5345. Integrative Field Project.**

Student teams work directly with organizations and managers to solve significant managerial problems. Students apply their skills and knowledge acquired in the program in a real world setting. Results of the project are summarized in a comprehensive written report and a formal oral presentation. Prerequisites: Permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5375. International Management-Latin America.**

A study of the cultural, economic, regulatory, and political factors impacting international business. Emphasis is placed on theory and research of management phenomena in Latin America and on issues mediating commercial and governmental relations between the United States and Latin American countries. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MGT 5380A. Business Ethics Leadership.**

This course examines a variety of ethical issues in business from multiple stakeholder perspectives (top management, employees, community members, etc.). The course is designed to enhance moral awareness and facilitate individual development with respect to making ethical decisions that contribute to effective corporate management and leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 5380B. Human Resource Information Systems.**

This course provides an overview of functional areas in an HRIS system with a focus on the acquisition of skills with respect to the software as well as knowledge regarding the implementation process, associated benefits and costs, and the application of HRIS to manage critical HRM processes. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 5380D. Labor Relations and Negotiation.**

This graduate level course is a study of labor organizations and their impact as well as negotiation and conflict resolution issues. The course will examine the National Labor Relations Act (NLRA), union and employer rights under the NLRA, union organizing, collective bargaining, negotiation, contract administration, mediation and arbitration.

Prerequisite or Co-requisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 5390. Business Research Methods.**

Designed to aid graduate students in analyzing reports, evaluating research and in planning research reports. Involves the selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5391. Managing the Communication Process.**

The study and application of theory and psychology of managerial communication using written, oral, and technological modes to communicate within the business environment. The course includes the process and product approach to graphics, leadership, problem solving, prioritizing, interviewing, and communicating change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5395. Graduate Business Internship.**

Integration of professional and academic experience through internship with an external employer. Prerequisites: MBA students only; must have completed 12 or more hours of graduate business courses; enrollment subject to availability and approval

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in MGT 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**MGT 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## M.B.A. in Business Administration

### Major Program

The master of business administration (M.B.A.) program in the McCoy College emphasizes the knowledge and tools needed for professional success and is designed for those individuals who expect to pursue careers in the management of organizations in either the public or private sector. The curriculum provides broad-based, generalized education with the flexibility to meet individual needs. Students may choose an optional emphasis in one of five areas of study in a flexible format or select a full-time cohort program. The entire Flex M.B.A. program can be completed at either the San Marcos or Round Rock campus while the Full-Time Cohort program is available exclusively at the San Marcos campus.

Students in the Flex M.B.A. program with a **Computer Information Systems Emphasis** learn how technology has changed the way business operates and how to harness the power of technology in various business management settings.

The Flex M.B.A. with an **Engineering Technology Emphasis** is offered in cooperation with the Department of Engineering Technology, an academic division of the College of Science and Engineering. M.B.A. students pursuing the engineering and technology specialization should find enhanced career opportunities with companies oriented significantly toward manufacturing.

Students interested in careers related to international business may choose to seek the Flex M.B.A. degree with an **International Business Emphasis**. This emphasis is designed to provide focused study in international business including cultural, historical, and political issues. While this emphasis is available to all students in the M.B.A. program, it is especially well suited for undergraduate students in the international studies undergraduate program.

If a student's interest is the healthcare industry, the Flex M.B.A. with a **Health Administration Emphasis** may be for them. Offered jointly with the College of Health Professions, the program combines academic content from both colleges to prepare students for a successful career in healthcare.

For those interested in the field of human resources, a Flex M.B.A. with a **emphasis in human resource management** is available. This option

provides information on organizational change, staffing, compensation and benefits, and international HR.

The **Full-Time Cohort** M.B.A. is offered exclusively at the San Marcos campus. In addition to the core courses, students must complete an internship and study abroad experience in a specific semester as outlined for each cohort group.

Each of the above options require completing course work from three sets of courses:

- Courses in the first set constitute Tier 1 core courses. They are designed to give students a strong foundation in business as well as begin intensive professional development. These courses must be completed for any of the M.B.A. options selected.
- The second set of courses are the Tier 2 core courses. The purpose of the Tier 2 core courses is to ensure that all students completing a program of study have a common academic experience in all areas critical to success in a discipline. While all M.B.A. options require a similar set of Tier 2 core courses, there are some exceptions noted on the Requirements tab.
- The third set of courses for the M.B.A. options is the elective courses. In addition to the required Tier 1 and Tier 2 core courses for each M.B.A. option, the degree candidate is allowed to select a group of courses from an approved set of electives. The exact number of elective courses varies between degree options. Course requirements for each M.B.A. option are described on the Requirements tab.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/bus.html>.

## Degree Requirements

The requirements for the M.B.A. degree program consist of satisfactory completion of the following:

1. Tier 1 and Tier 2 graduate core and elective course work as determined by the M.B.A. option selected: For students who select the general M.B.A. non-thesis option, eleven M.B.A. graduate-level core courses and three elective courses (9 hours); or
  - a. For **general** Flex M.B.A. students who select the thesis option, eleven M.B.A. graduate-level core courses, one elective courses (3 hours) and a thesis (6 hours credit);
  - b. For students who select the Flex M.B.A. with a **Computer Information Systems** emphasis, eleven M.B.A. graduate-level core courses, two computer information science required courses (6 hours credit), and two computer information science elective courses (6 hours credit) (45 hour program); Thesis option not available;
  - c. For students who select the Flex M.B.A. with an **Engineering and Technology** emphasis, twelve graduate-level core courses and three engineering and technology elective courses (9 hours) (45 hour program). Thesis option not available;
  - d. For students who select the Flex M.B.A. with an **International Business** emphasis, eleven M.B.A. graduate-level core courses and four international elective courses (12 hours credit) focusing either international management or international finance and economics (45 hour program); Thesis option not available;
  - e. For students who select the Flex M.B.A. with a **Health Administration** emphasis, twelve graduate-level core courses and



three health administration elective courses (9 hours) (45 hour program). Thesis option not available;

- f. For students who select the Flex M.B.A. with a **Human Resource Management** emphasis, twelve graduate-level core courses and three human resource management elective courses (9 hours) (45 hour program). Thesis option not available;
  - g. For the **Full-Time Cohort** program, eleven M.B.A. graduate-level core courses, and three prescribed elective courses (9 hours) all taken in specific semesters; Thesis option not available.
2. Satisfactory completion of the comprehensive examination taken as part of the capstone course: MGT 5313 Strategic Management;
  3. Acceptance of the thesis if the thesis degree option is selected.

## Course Work Requirements

### General Flex M.B.A. Option

The general M.B.A. degree (a 42-hour program) requires 33 semester hours of required core courses and 9 semester hours of elective courses. In addition, students enrolled in the general M.B.A. option may choose to write a thesis as part of the degree requirements. Under the thesis plan, the student must complete the same requirements as the non-thesis option except that six semester hours of electives will be replaced by six hours of thesis credit. The university requirement for a comprehensive examination is satisfied by an in-depth analysis of a case designed to integrate the M.B.A. core areas.

All general M.B.A. students must complete 33 semester hours of graduate core courses. Students must satisfy all prerequisites of a graduate course before enrolling in a course. Tier 1 core courses should be taken before other courses. QMST 5334 should be taken early in a student's academic program. MGT 5313 should be taken in the student's last term because it serves as the capstone course for integrating the course material in the M.B.A. program. The university-required comprehensive exam is given as part of this course.

The required core courses for this option include the following. Descriptions of these courses may be found in the Courses tab.

#### Tier 1 Core Courses

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

#### Tier 2 Core Courses

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5321	Marketing Management	3
QMST 5334	Advanced Statistical Methods for Business	3

#### Graduate-level Electives and Optional Thesis

Select 9 hours of graduate-level electives, or 3 hours of electives and six hours of thesis if choosing the thesis option <sup>1</sup>

MGT 5199B	Thesis	
MGT 5299B	Thesis	

MGT 5399A	Thesis	
MGT 5399B	Thesis	
MGT 5599B	Thesis	
MGT 5999B	Thesis	

Total Hours		42
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<sup>1</sup> Electives are available in accounting, business law, computer information systems, economics, finance, management, marketing, quantitative methods, and disciplines outside the field of business. Each academic department may offer additional courses whenever the demand exists and resources are available. All electives are not offered every term. A maximum of six elective hours may be taken outside of business, but the courses must be approved by the Emmett and Miriam McCoy College of Business Administration graduate advisor and the dean of The Graduate College **before the student enrolls** in the course. Students should confer with their advisor when selecting elective courses.

### Flex M.B.A. with Computer Information Systems Option

#### Tier 1 Core Courses

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

#### Tier 2 Core Courses

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5321	Marketing Management	3
QMST 5334	Advanced Statistical Methods for Business	3
CIS 5358	IT Systems Project Management	3
CIS 5368	Information Security	3

#### Electives

Select 6 hours from the following:		6
CIS 5355	Database Management Systems	
CIS 5356	Business Telecommunications	
CIS 5360	E-Commerce: Strategies, Technologies, and Applications	
CIS 5364	Data Warehousing and Mining	
CIS 5370	Enterprise Resource Planning	
CIS 5390A	Business Process Modeling	
CIS 5390B	Business Intelligence Project	

Total Hours		45
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### Flex M.B.A. with Engineering Technology Option

#### Tier 1 Core Courses

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

**Tier 2 Core Courses**

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
TECH 5315	Engineering Economic Analysis	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5321	Marketing Management	3
QMST 5334	Advanced Statistical Methods for Business	3
TECH 5364	Robust Product and Process Design	3

**Electives**

Select 9 hours of graduate-level technology electives <sup>1</sup>		9
Recommended technology electives:		
TECH 5382	Industrial Ecology and Sustainability Engineering	
TECH 5385	Readings in Technology	
TECH 5387	Advanced Facilities Planning	

Total Hours		45
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<sup>1</sup> The courses and their descriptions are listed in this catalog under the **Department of Technology** section within the College of Science. Other graduate-level technology courses are acceptable as electives. However, courses other than the three listed above may require certain background work. Students must secure permission of their graduate advisor **before** enrolling in any other elective course.

**Flex M.B.A. with International Business Option****Tier 1 Core Courses**

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

**Tier 2 Core Courses**

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5330	International Marketing	3
QMST 5334	Advanced Statistical Methods for Business	3

**Electives**

Select 12 hours of Electives <sup>1</sup>		12
Total Hours		45

<sup>1</sup> Selected from a set of internationally focused courses that are designed to support the core material for this option. Electives will allow students to concentrate either in international management or international finance and economics.

**Flex M.B.A. with Health Administration Option****Tier 1 Core Courses**

B A 5351	Organizational Performance and Competitive Advantage	3
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B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

**Tier 2 Core Courses**

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5321	Marketing Management	3
QMST 5334	Advanced Statistical Methods for Business	3
HA 5300	Healthcare Organization and Delivery	3

**Electives**

Select nine hours from a set of Health Administration courses including the following: <sup>1</sup>		9
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HA 5321	Healthcare Law	
HA 5325	Patient Care Management and Integrated Delivery Systems	
HA 5334	Operational Decision Making for Healthcare Managers	
HA 5335	Public Health for Healthcare Administrators	
HA 5355	Human Resource Management in Healthcare Facilities	
HA 5356	Policy Development in Healthcare Arena	

Total Hours		45
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<sup>1</sup> A description of these courses can be found in this catalog in the **School of Health Administration** section.

**Flex M.B.A. with Human Resource Management Option****Tier 1 Core Courses**

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

**Tier 2 Core Courses**

ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
FIN 5387	Managerial Finance	3
MGT 5313	Strategic Management	3
MGT 5314	Organizational Behavior and Theory	3
MKT 5321	Marketing Management	3
QMST 5334	Advanced Statistical Methods for Business	3
MGT 5330	Seminar in Human Resource Management	3

**Electives**

Select nine hours from a set of Human Resource Management courses including the following:		9
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MGT 5336	Compensation and Benefits	
MGT 5337	Organizational Staffing	
MGT 5338	Human Resource Development	

MGT 5339	International Human Resource Management	
BLAW 5310	The Employment Relationship	
MGT 5310	Organizational Change Management	
Total Hours		45

### M.B.A. Full-Time Cohort

#### Tier 1 Core Courses

B A 5351	Organizational Performance and Competitive Advantage	3
B A 5352	Developing the Financial Perspective of the Firm	3
B A 5353	Understanding and Analyzing Organizational Problems	3

#### Tier 2 Core Courses

FIN 5387	Managerial Finance	3
MGT 5314	Organizational Behavior and Theory	3
QMST 5334	Advanced Statistical Methods for Business	3
MKT 5321	Marketing Management	3
ACC 5361	Accounting Analysis for Managerial Decision Making	3
CIS 5318	Information Technology in the Digital Economy	3
ECO 5316	Managerial Economics	3
MGT 5313	Strategic Management	3

#### Electives

Required electives <sup>1</sup>		
MGT 5395	Graduate Business Internship	3
Study Abroad		6
Total Hours		42

<sup>1</sup> Students must secure permission of their graduate advisor before enrolling in any other elective course.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form

be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or

PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Business Administration: ACC (p. 647), B A (p. 649), BLAW (p. 649), CIS (p. 650), ECO (p. 651), FIN (p. 652), MGT (p. 652), MKT (p. 655), QMST (p. 656)

## Courses Offered

*Students must complete the appropriate background course or its equivalent before enrolling in elective courses.*

### Accounting (ACC)

#### ACC 5303. Fundamental Accounting.

An intensive study of financial accounting procedures, concepts, and reports utilized in making business decisions, including preparation and interpretation of financial statements, measurement of cash flows, and financial forecasting. May not be counted as an elective MBA course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### ACC 5315. Selected Topics in Financial Accounting.

The study of specialized financial accounting topics, existing and prospective, necessary for an advanced understanding of financial reporting. Topics include: pensions and post-retirement benefits, deferred taxes, derivatives, share-based payments, interim and segment reporting and emerging issues of the Emerging Issues Task Force. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5316. Advanced Accounting.

A study of accounting for business combinations and consolidated financial statements. Additional selected topics may include accounting for multinational operations, interim reporting, SEC reporting, partnership and governmental and not-forprofit accounting. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5320. Auditing.

A study of the underlying theory of external financial auditing including professional ethics, auditing standards and procedures, and the role of auditor's judgment. (Suggested for CPA eligibility). Prerequisites: ACC 3314 and ACC 4313 with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5340. Individual Income Tax.

A study of the tax concepts and issues involved in an individual's employment and personal life, and in sole proprietorships, property transactions, tax administration and tax practice. Regulatory and ethical issues are incorporated into the discussion. This course may not count as an elective in any master's program in the McCoy College of Business. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5350. Professional Accounting Research.

This course provides a study of the sources of authoritative standards in financial accounting. The course develops procedures for identifying the applicable accounting issues, locating appropriate authority, and communicating the results of professional research. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5352. Financial Statement Reporting and Analysis.

A study of financial statement reporting and analysis. Use of tools and skills will be used to analyze and interpret financial reports for assessing financial performance of firms to facilitate investment, lending, and other financial decisions in a variety of business contexts. Prerequisite: ACC 3313, or ACC 5303, or ACC 5361 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5355. IT Auditing.

A study of the IT audit: the process of collecting and evaluating evidence of an IT system practices and operations. The course develops understanding of the procedures to test whether the systems are safeguarding assets, maintaining data security and operating effectively and efficiently. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5361. Accounting Analysis for Managerial Decision Making.

Use of accounting information for improving managerial decision making. Emphasis is on understanding the practice of business management, budgeting, cost behavior, and operational, internal, and management control. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5362. Cost and Managerial Accounting Theory.

A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems. Prerequisites: ACC 3365 or ACC 5361 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ACC 5366. Business Entity Taxation.

Federal income tax provisions affecting business decisions, with an emphasis on C Corporations, Limited Liability Companies, and Partnerships. An introduction to the choice, formation, organization, operation and distribution rules or the preceding business entities. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ACC 5367. Seminar in Auditing.**

A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards of external auditing, internal auditing, governmental auditing, and international auditing, including exposure to current developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures, and the use of the computer as an audit tool. Prerequisite: ACC 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5369. Special Studies in Accounting.**

Directed study and research on selected accounting topics, including the development of accounting thought and research in; advanced tax topics, international accounting, professional ethics and managerial and financial accounting. Courses will be offered as independent instruction. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5370. Internship in Accounting.**

Experiential learning during which the students work in accounting. This work experience may be in public, industry, or governmental accounting units. The student is immersed in a variety of intensive work assignments with increasing levels of responsibility. Students taking ACC 5370 for credit may not take ACC 5680 for credit. Graded on a credit (CR), no credit (F) basis. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ACC 5371. Accounting Information Systems.**

This course studies various accounting information systems technologies used to enhance business process operations. It also explores management of risks and controls, and management of information resources. Prerequisite: ACC 3385 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5372. Tax Research.**

An examination of the sources of tax authority, which include its primary sources (legislative, judicial, and administrative), as well as secondary sources. The course also develops procedures for identifying the applicable tax issues, locating appropriate tax authority, and communicating the results of tax research. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5373. Fraud Detection and Prevention.**

This course provides and in-depth study of how and why fraud is committed. It explores red flags that may help in detecting fraudulent activities, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5375. Business Information Consulting.**

Integrative capstone for the MSAIT program using principles and concepts applied through the analysis and presentation of case studies dealing with current issues or emerging trends in the fields of accounting and information technology for the accounting professionals serving as consultants. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5377. Partnership Taxation.**

A comprehensive study of the tax implications of conducting a business as a partnership or as a limited liability company. Life-cycle analysis and tax planning considerations are emphasized. Prerequisite: ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5378. Tax Practice, Procedures, Audits and Controversy.**

This course focuses on the procedural aspects of tax planning and tax return preparation. Coverage includes IRS enforcement tools and corresponding taxpayer rights, audits and appeals, civil and criminal penalties, and statutory relief provisions. Professional standards and ethical considerations in tax practice are emphasized. Prerequisite: ACC 5366 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5379. State and Local Taxation.**

This is a survey of state and local income tax systems emphasizing income and franchise taxes on individuals and business entities, sales and use taxes, and property taxes. Coverage includes business nexus and multistate allocation and apportionment issues. Prerequisite: ACC 4328 or ACC 5340. Corequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5381. Advanced Business and Regulation Concepts.**

An in-depth study of business environment and regulation concepts in preparation for professional accounting exams. Either ACC 5380 or 5381 must be taken in the final semester of the Master of Accounting program. Prerequisites: ACC 5360 and ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5383. Enterprise Resource Planning Systems.**

The use of information technology for integrating enterprises for operational control and strategic business intelligence is examined via ERP applications in customer relationship management, accounting and finance, purchasing and production control, sales and marketing, and human resource management. Managerial issues surrounding the selection, design and implementation of ERP systems are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5384. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ACC 5385. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design, and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Student will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5389. Corporate Governance and Ethics.**

A study of the corporate governance and ethical issues in accounting, including ethical reasoning, integrity, objectivity, independence, core values and professional issues. Prerequisites: ACC 3314 (or equivalent) with a grade of "B" or better, and ACC 3363, ACC 3365, ACC 3385, ACC 4313, and ACC 4328 or ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5390A. International Accounting.**

A study of the impact of international business activity on the profession of accounting. The course will investigate the development of international accounting standards and compare those standards to existing United States standards. Students taking ACC 4390A for credit may not take ACC 5390A for credit. Prerequisite: ACC 5315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**ACC 5390F. Mergers, Acquisitions, and Consolidations Taxation.**

This course on mergers, acquisitions and consolidations will examine the tax ramifications and corporate strategies considerations of buying, selling and combining different companies; the consolidated tax return consequences of those affiliated groups; and the residual outcomes and tax attributes that result from corporate divisions. Prerequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ACC 5390G. Sustainability Reporting.**

This course on sustainability reporting strategies will examine analytical methods and reporting techniques used by for-profit and non-profit companies to support sustainable operations. Prerequisite: ACC 5303 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Business Administration (B A)****B A 5100. Business Professional Development Seminar.**

This course is designed to contribute to the development of the business professional. Academic content is supplemented by training in soft skill topics to better prepare the students for a successful business career. Prerequisite: MBA students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**B A 5351. Organizational Performance and Competitive Advantage.**

This course is designed to provide an integrative understanding of the firm. A variety of organizational models and perspectives will be incorporated to facilitate understanding of the complexities of the firm, its environments, and its relationships with stakeholders. Includes focus on case analysis issues and communication skills. Prerequisite: MBAs only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5352. Developing the Financial Perspective of the Firm.**

Development of the theoretical basis and presentation of accounting and finance. Topics include understanding the basic elements of financial statements, the use of accounting information in decision making, and the techniques for the acquisition and management of the firm's financial resources. Prerequisite: B A 5351 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5353. Understanding and Analyzing Organizational Problems.**

An introduction to the concepts of economic theory and statistics, with an emphasis on developing skills in data and economic analysis to solve business problems. Coverage includes prices, costs, market structures, macroeconomic policies, central tendencies in data, confidence intervals, hypothesis testing, and regression. Prerequisite: B A 5351 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5368A. MBA Full Time Cohort International Experience.**

This course will focus on developing an understanding and analysis of issues related to business challenges in another country. Students will gain first-hand experience with the business practices, culture and economy of another country

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Business Law (BLAW)****BLAW 5308. The Legal, Ethical, and Regulatory Environment of Business.**

A broad based course on the fundamentals of business law, as viewed from the managerial standpoint. Topics include court systems, constitutional law, contracts, sales, consumer rights, employment, antitrust, agency and ethical considerations. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**BLAW 5310. The Employment Relationship.**

A study of trends in the rapidly evolving "law of workplace," with emphasis on how lawmakers attempt to balance the rights and responsibilities of employers and workers. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BLAW 5368A. Judicial and Legislative Trends in the Legal Environment of Business.**

An examination of recent court cases and legislation enacted or that may be pending before Congress in order to understand the impact of current laws on business activity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368B. Law and Ethics in the Business Environment.**

An examination of the ethical dimensions of management decision-making. Problems are viewed through the lens of a value system determined, in part, by the legal system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368D. Business Dispute Administration.**

Course describes civil and religious law systems, both in the U.S. and abroad, alternative dispute resolution programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368E. Environmental Law and Policy.**

Course attempts to integrate the study of environmental law w/ concepts from other disciplines necessary to an assessment of the law, primarily economics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368F. Business Law for Entrepreneurs.**

Course explores steps that an entrepreneur who is contemplating leaving an employer can take to make the departure amicable

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368G. Legal Issues in International Business Law.**

Emphasis in Latin American Business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368H. Legal Issues of Sustainability and Responsibility.**

Diverse frameworks and analytical methods underlying our understanding of sustainability are explored, including the legal aspects & impact on business, society, environment and economy. Topics include corporate governance, globalization, urbanization, energy, human population, food, natural resources, water and equity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368J. Commercial Law.**

A traditional business law course which examines sales, negotiable instruments, creditor's rights and remedies, secured transactions, bankruptcy law, personal property, bailments, real property and landlord-tenant relationships. Prerequisites: BLAW 2361, graduate status, and good academic standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368K. Business Organizations and Government Regulations.**

A traditional business law course which examines agency, employment law, partnerships, limited liability companies, corporations, securities law, law for small business, administrative law, consumer law, environmental law, antitrust law, and insurance. Prerequisites: BLAW 2361, graduate status, and good academic standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Computer Information Systems (CIS)****CIS 5318. Information Technology in the Digital Economy.**

Provides an understanding of the issues involved in the strategic management of the information assets of organizations. Examines the issues and challenges that users face within the Information Technology (IT) management arena as part of a firm's business and IT strategy. Focus is on managerial rather than technical issues. Prerequisite:

B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5354. Decision Support Models in Management.**

This course is designed to give students the skills to design, implement, analyze, and present the results of an executive decision model.

Students will gain hands-on experience both by preparing applications-oriented projects/cases and also by designing selected parts of DSS using Graphical User Interface (GUI) tools. Prerequisites: A strong working knowledge of personal computers and the Windows operating environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5355. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Students will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5356. Business Telecommunications.**

Explores the technology that is revolutionizing the manner in which business and government conduct their operations and the effects new developments in communication media have on computing systems. This course reflects the current state-of-the-art in data communication networking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5358. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5360. E-Commerce: Strategies, Technologies, and Applications.**

This course is designed to familiarize students with current and emerging e-commerce technologies. Topics include Internet technology for business advantage, reinventing the future of business through e-commerce, business opportunities in e-commerce, and social, political, global, and ethical issues associated with ecommerce

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5364. Data Warehousing and Mining.**

Familiarizes students with current and emerging data warehousing and mining technologies that are likely to play a strategic role in business organizations. Topics include data mining techniques, data warehouse development life cycle, data warehouse navigation, data quality, and performance issues. Prerequisites: QMST 5334, QMST 2333 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5368. Information Security.**

This course covers the analysis, design, development, implementation, and maintenance of information security systems. Topics include legal, ethical, professional, personnel issues; risk management; technology; cryptography; and physical security

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5370. Enterprise Resource Planning.**

The use of information technology in integrating enterprises for operational control and strategic business intelligence is examined via Enterprise Resource Planning (ERP) applications in customer relationships management, accounting, finance, purchasing, production control, sales, marketing, and human resource management. Emphasizes managerial issues surrounding the need, selection, and implementation of ERP systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5390A. Business Process Modeling.**

A study of tools and techniques for analyzing requirements of business process oriented systems. The course emphasizes a model driven approach and its usage for developing information controls. Unified Modeling Language (UML) is introduced to specify the user/system interaction, business logic, and data storage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CIS 5390B. Business Intelligence Project.**

Development of a system used for the implementation of analytics to diverse areas of interest, including: marketing, financial risk analysis, quality management in manufacturing, health care management, and geographic information systems. Prerequisite: CIS 5355, CIS 5364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Economics (ECO)****ECO 5302. Economic Theory and Policy.**

An intensive study of micro-and macroeconomic concepts; the price system as it functions under competition, monopoly, monopolistic competition and oligopoly; national income measurement and determination; business cycles; money and banking; monetary policy; fiscal policy and economic stabilization. May not be counted as an elective MBA course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ECO 5310. International Economics.**

Examination of the patterns of trade and finance among nations, integrating the topics of exchange rates, trade barriers, customs unions, and macroeconomics policy into a unified treatment of international economic relations. Prerequisite: B A 5353. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ECO 5316. Managerial Economics.**

The application of economic theory and analysis to the formulation of business policy, including demand analysis, production theory, linear programming, and pricing policy. (MBA with Technology Emphasis students complete TECH 5315.) Prerequisite: QMST 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 5320. Emerging Market Economies.**

The course focuses on the structural characteristics of the emerging market economies, with an emphasis on analyzing the salient economic challenges and opportunities facing contemporary emerging market economies. Prerequisites: BA 5353

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 5378. Macroeconomic Theory and Policy.**

An analysis of theory and policy questions relating to the rate of economic growth. The theory of national income, employment and the price level from the point of view of dynamics. Students may take either BA 5378 or BA 5316. Prerequisite: BA 5302 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Finance (FIN)

### FIN 5307. Financial Analysis.

Development of the theoretical basis and presentation of the techniques for the acquisition and management of the firm's financial resources.

Topics include working capital management, capital budgeting, and internal and external financing decisions. May not be counted as an MBA elective course. This course does not earn graduate degree credit.

Prerequisite: B A 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

### FIN 5322. Investment Analysis.

This course provides an introduction to the basic concepts of investments and investment management. It is designed to develop a framework within which to view the investment process in a global environment and an understanding of the institutional setting in which investment decisions are made. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FIN 5332. Portfolio Theory and Capital Markets.

This course is designed to provide students with an overview of the strategies for creating and managing portfolios. At the end of this course, students should understand the tools for investment management.

Topics covered include portfolio construction and analysis, risk analysis, asset class management, derivatives, and portfolio performance analysis.

Prerequisite: FIN 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FIN 5337. International Finance.

Examination of economic incentives and rationale for multinational firms, exchange rate risk exposure and management, investment decision strategy, and the general economic impact of multinational firm activity.

Prerequisite: B A 5352. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

### FIN 5338. International Investments and Financial Management.

Examination of economic incentives and rationale for international investment and financing. Topics include exchange rate risk exposure and management, global debt and equity investment and financing, foreign currency derivative markets, and general investment and financing strategy in global capital market. Prerequisite: B A 5352. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

### FIN 5347C. Real Estate Investment.

An application of capital budgeting to real estate investment decisions.

Prerequisite: FIN 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FIN 5347D. Behavioral Finance and the Business of Professional Sports.

This course provides student with an understanding of the relationship between psychology, investor behavior, and financial market efficiency.

While market participants may believe that they are acting rationally when making investment decisions, often they are influenced by irrelevant information or ignore pertinent factors. Students will be presented with recent research in the field of behavioral finance.

Attention will be given to sports betting markets; such markets provide a useful model for analyzing investor behavior. The course also includes an in-depth examination of sports as a business. Specifically, students will analyze financial decision-making in the NFL, MLB, NHL, NBA, and horse racing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FIN 5347F. Money, Banking, Financial Markets & Institutions.

This course will examine the important relationships between money, depository institutions, financial markets and non-depository financial institutions. It is designed to equip managers with intellectual tools necessary to critically evaluate changing and evolving financial market conditions and their impact on managerial decision making. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FIN 5347G. Short-Term Financial & Treasury Management.

The focus of the course is to apply financial concepts and quantitative techniques to solve issues in corporate treasury and short-term financial problems. Topics include cash collection, cash concentration, disbursement management, forecasting cash flows, credit management, banking relationships, and short-term investment and borrow strategies.

Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### FIN 5387. Managerial Finance.

Concentrates on the finance function, analysis and budgeting of funds, management of current assets, short and intermediate-term financing requirements, long-term debt policy and capital structure, capital budgeting, and the concept of cost of capital. Risk and return trade-offs also are studied. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### FIN 5395. Independent Study in Finance.

An in-depth study of a single topic or related problem solved through finance research. The course may be repeated once if the topic studied is different. Prerequisite: Consent of instructor and Department Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Management (MGT)

### MGT 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**MGT 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5301. Graduate Assistant Development.**

Completion of this course is required as a condition of employment for graduate assistants. The course is seminar based and covers topics related to employment responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis. Prerequisite: McCoy College Graduate Assistant

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MGT 5310. Organizational Change Management.**

Presents an overview of the process of change in an organization and stresses the key issues involved in reengineering and renewing organizations. Problems dealing with stress and conflict during major change will be explored along with practical ideas on building effective teams to make change possible and sustainable

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5311. Process Improvement Management in Organizations.**

Learn existing and latest developments in process improvement techniques for continuous improvement and the role of quality as a system for establishing an organization's competitive advantage. Process mapping is emphasized and assessment of effectiveness in the interactions of the managerial and technical systems of organizations is also studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5312. Seminar in Management.**

Development of philosophy, strategy, and tactics in managing an enterprise. Administrative processes common to all enterprises, such as entrepreneurship, business and society, leadership and group behavior in organizations, business ethics, and international management. (Course may be repeated for credit with different course focus.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5313. Strategic Management.**

An integrative approach to policy formulation and administration (decision making) to achieve organization objectives. Should be taken the last semester of student's MBA program. Prerequisites: QMST 5334, MKT 5321, ACC 5361, FIN 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5314. Organizational Behavior and Theory.**

Organizational behavior and structure as influenced by environmental variables and system relationships. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5315. New Venture Management.**

This course provides an overview of the entrepreneurial process from the initial idea through start-up, growth, and harvest. Students learn how to write a business plan, manage all the elements of an entrepreneurial business, and develop a better understanding of the requirements of the entrepreneurial life path

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5318. Cross-Cultural Management.**

The global environment requires sensitivity to and the adaptation of leadership and management skills and practices, and the culture-bound differences in workplace behavior and attitudes. Explores how differences in cultural core values shape behavior and attitudes of workers, managerial colleagues, and negotiating partners. Prerequisites: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5321. Supply Chain Management.**

A variety of tools and frameworks provide students and understanding of the basis behind supply chain decision making. Topics include supply management concepts, demand-supply management, pull/push system, capacity and resource allocation, performance measurement, relationship assessment, and outsourcing in an integrated supply chain. Require graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5325. Managing Business Creativity.**

This course focuses on the means by which businesses and individuals foster and maintain their creative and innovative skills. Key topics include: idea generation and refinement, idea screening, prototype development, and feasibility analysis. Objectives are met through classroom exercises, case analysis, guest speakers, and individual and team projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5330. Seminar in Human Resource Management.**

A study of current developments and practices in human resource management, including employment laws; planning, recruitment and selection; training and development programs; wage and benefits administration; performance management, human relations and productivity; labor relations; safety and health; an current contributions to human resource management theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5333. Problems in Business Administration.**

The student is here given the opportunity to work in the field of his special interest, particularly in the subjects of accounting, business law, marketing, statistics, finance, and insurance. The course will be conducted by conferences between the student and instructors concerned. Problems will be assigned as nearly as possible for the needs of the individual student

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MGT 5335. New Venture Launch.**

The purpose of this class is to ensure students gain a full understanding of what it takes to start and grow a business. Students learn the process of creating a new venture from the inside by planning, organizing and launching an actual business. Prerequisite: MGT 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5336. Compensation and Benefits.**

This course addresses the rewards systems in organizations. Strategic and technical considerations in designing, administering and managing compensation and benefits plans in organizations, including job analysis and evaluation, wage levels and structures, legal issues, individual and group incentives, and benefits are considered. Prerequisites/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5337. Organizational Staffing.**

A study of the methods involved in recruitment and selection of employees with an emphasis on measurement, job analysis, performance appraisal, legal issues, and the role of human resource planning and strategy. This course relies on statistics to teach students to make reliable and valid employment decisions. Prerequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5338. Human Resource Development.**

A study of theoretical and applied perspectives on needs assessment, design, development delivery and evaluation of training and development as well as organizational change and development. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5339. International Human Resource Management.**

A study of challenges that decision makers consider when managing their human resources across the globe. Drawing on theories and models from cross-cultural and international management areas, this course covers such topics as globalization, culture, emerging international assignments, and expatriate recruitment, selection, training, repatriation, and career management. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5345. Integrative Field Project.**

Student teams work directly with organizations and managers to solve significant managerial problems. Students apply their skills and knowledge acquired in the program in a real world setting. Results of the project are summarized in a comprehensive written report and a formal oral presentation. Prerequisites: Permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5375. International Management-Latin America.**

A study of the cultural, economic, regulatory, and political factors impacting international business. Emphasis is placed on theory and research of management phenomena in Latin America and on issues mediating commercial and governmental relations between the United States and Latin American countries. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MGT 5380A. Business Ethics Leadership.**

This course examines a variety of ethical issues in business from multiple stakeholder perspectives (top management, employees, community members, etc.). The course is designed to enhance moral awareness and facilitate individual development with respect to making ethical decisions that contribute to effective corporate management and leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 5380B. Human Resource Information Systems.**

This course provides an overview of functional areas in an HRIS system with a focus on the acquisition of skills with respect to the software as well as knowledge regarding the implementation process, associated benefits and costs, and the application of HRIS to manage critical HRM processes. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 5380D. Labor Relations and Negotiation.**

This graduate level course is a study of labor organizations and their impact as well as negotiation and conflict resolution issues. The course will examine the National Labor Relations Act (NLRA), union and employer rights under the NLRA, union organizing, collective bargaining, negotiation, contract administration, mediation and arbitration.

Prerequisite or Co-requisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 5390. Business Research Methods.**

Designed to aid graduate students in analyzing reports, evaluating research and in planning research reports. Involves the selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5391. Managing the Communication Process.**

The study and application of theory and psychology of managerial communication using written, oral, and technological modes to communicate within the business environment. The course includes the process and product approach to graphics, leadership, problem solving, prioritizing, interviewing, and communicating change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5395. Graduate Business Internship.**

Integration of professional and academic experience through internship with an external employer. Prerequisites: MBA students only; must have completed 12 or more hours of graduate business courses; enrollment subject to availability and approval

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in MGT 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Marketing (MKT)****MKT 5311. Current Developments in Marketing.**

Advanced study of marketing functions and institutions, marketing structures, strategies, policies, and problems. Students will be given an opportunity to examine developments of special interest to them.

Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5321. Marketing Management.**

A study of the planning and coordination of marketing functions, marketing policies, and the analysis of marketing administration.

Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5322. Marketing Research Methods.**

An advanced study of the marketing research process to include problem formulation, determination of sources of information and research design, design of data collection forms, design of the sample, collection of the data, analysis and interpretation of the data, preparation of the research report, and oral presentation of the research findings.

Prerequisites: MKT 5321 and QMST 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5325. Global Marketing and the Value Chain.**

To understand the value chain concept and the linkages between value chains in the global marketplace. This will include evaluating the various value chains: supplier, firm, channel, and buyer in the global context.

Topics will include procurement, operations, logistics, negotiation, marketing channels, and customer service

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5330. International Marketing.**

An application of marketing concepts to the global business environment. Examines marketing in the light of international economic, social, cultural, business, and environmental factors. Prerequisite:

B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5331. Integrated Marketing Communications.**

An analysis of consumer behavior in the marketplace and its application to the preparation & presentation of a complete integrated marketing communications plan for a local, regional, and/or national client.

Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5335. Services Marketing.**

Services dominate the U.S. economy and are becoming critical for competitive advantage in companies across the globe and in all industry sectors. This course examines the foundations of services marketing, which are necessary to create, promise, and deliver a successful, interactive customer experience. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5395. Independent Study in Marketing.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in Marketing. Requires approval of instructor and program director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5397A. Sports Marketing.**

Examines four components of sports marketing, including: (1) the foundation of sports marketing, (2) marketing through sports, including sponsorship, endorsement, and licensing strategies, (3) the marketing of sports, including marketing mix strategies, and (4) emerging topics in sports marketing, including relationship marketing, technology, and controversial issues. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397B. Social Marketing.**

Social marketing is the use of marketing principles and techniques to influence a target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a whole. This course examines current applications of social marketing to solve societal problems. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397C. Technology and Marketing.**

Technology & Marketing covers the impact of new information technologies on marketing and marketing industries undergoing high levels of technological change. Subject areas such as social media, e-commerce, database marketing, business-to-business marketing, and customer contact management are examined and illustrated in industry settings that emphasize innovation through new technologies. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397D. Marketing Metrics and Analysis.**

To understand the measurement, analysis, and interpretation of marketing metrics that are critical for marketing strategy development and firm performance. Topics will include metrics associated with customers, brands, marketing mix decisions, online strategy and social media, firm profitability, and marketing dashboards. Prerequisite: Graduate standing; MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Quantitative Methods and Statistics (QMST)****QMST 5309. Statistical Methods for Business Analysis.**

A study of probability, statistical reference, and regression analysis, and the use of these tools for the purpose of decision making in business and economics. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**QMST 5332. Quantitative Methods.**

A study of management science/operations research emphasizing theory and applications of evaluative, predictive, and optimizing models as applied to the management of product and service-oriented operations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 5334. Advanced Statistical Methods for Business.**

The course provides the quantitative foundation for business analysis and decision making. Topics include: regression analysis, mathematical programming, simulation and other analytical/modeling techniques with wide applicability in decision-making and problem solving in all functional areas of business. Prerequisite: B A 5353

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 5335. Introduction to Forecasting and Simulation.**

Introduction to the concepts and principles of forecasting and simulation techniques as applies to planning and decision making in organizations. Topical coverage includes time series forecasting, casual forecasting, discrete event simulation, and continues-event simulation techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**College of Education****Dean**

D. Stanley Carpenter, Ph.D.  
Education Building Room 2001  
T: 512.245.2150 F: 512.245.3158  
<http://www.education.txstate.edu/>

**Associate Dean for Research and Sponsored Programs**

Lisa K. Lloyd, Ph.D.

**Associate Dean for Teacher Education and Academic Affairs**

Patrice H. Werner, Ph.D.

**Assistant Dean for Academic Affairs**

Rubén Garza, Ph.D.

**Assistant Dean for Faculty and Staff Development**

Eric A. Schmidt, Ph.D.

**Department Chairs**

Counseling, Leadership, Adult Education, and School Psychology—Michael P. O'Malley, Ed.D.

Curriculum and Instruction—Jodi Patrick Holschuh, Ph.D.

Health and Human Performance—Duane V. Knudson, Ph.D.

**Office of Educator Preparation**

Education Building – Room 2016

T: 512.245.7880 F: 512.245.8345

<http://www.education.txstate.edu/oepe>

Teacher preparation was the original mission of Southwest Texas Normal School when it was chartered in 1899, and today faculty members in the College of Education continue to focus their efforts on this primary mission. Over the last century, the mission of the College has expanded from preparing teachers at the undergraduate level to include the preparation of educators at the master's and doctoral levels as well as the preparation of professionals in other fields including recreation administration, health and wellness promotion, athletic training, health and fitness management, educational leadership, school psychology, professional counseling, and adult and developmental education.

**Department of Counseling, Leadership, Adult Education, and School Psychology**

Education Building Room 4037

T: 512.245.2575 F: 512.245.8872

<http://www.txstate.edu/clas>

Comprised of graduate programs at the master's and doctoral levels, our department consists of a multidisciplinary team of professors and highly qualified staff committed to the educational and professional success of our students. Our students and graduates provide leadership and professional service to schools, agencies, communities, colleges and universities, and professions across Texas as well as nationally and internationally. Pursuing the dreams and possibilities of a graduate education, our students come from many distinct fields, diverse backgrounds, and bring a wide range of professional and personal experiences that enrich our work together. Our faculty are deeply involved in high quality, innovative, and critical research projects generating knowledge and understanding oriented toward the flourishing of communities, individuals, and the social institutions that support them. Eager to share the work of research, scholarship, and learning with their students, the faculty also supports and advances Texas State as a Hispanic Serving Institution. The department consists of approximately 38 full-time faculty, 20 part-time faculty with practitioner leadership expertise, 5 staff, 440 master's students, and 115 doctoral students. The department employs 30 doctoral and graduate assistants and operates community counseling clinics at both the San Marcos and Round Rock campuses.

**Student Fitness and Performance****Program Standards**

Students enrolled in all academic programs in The Graduate College must maintain high scholastic standards and develop a mastery of the knowledge and methods of their respective discipline. Students are expected to demonstrate emotional and mental fitness in their interactions with others, use skills and methods that are generally accepted by others in the profession, and conform to the code of ethics of their respective discipline, and the university's honor code. A student's

acceptance in any program does not guarantee the student's fitness to remain in that program. The faculty is responsible for verifying that only those students who continue to meet program standards are allowed to continue in any program.

### Evaluation of Student Fitness and Performance

Members of the faculty, using their professional judgments, evaluate student fitness and performance continuously. The criteria used by the faculty to make such judgments include instructors' observations of student performance in class or in activities related to courses, evaluations of student performance on theses and practica, site supervisors' evaluations of student performance in practica, and the codes of ethics noted above. Students who are not making satisfactory progress or who are not meeting program standards should consider withdrawing from the program.

In this context, the term "satisfactory progress" refers to an academic judgment made regarding the student's fitness and performance. It is a judgment that the student has failed to meet program standards rather than a judgment made on the basis of the student's violation of valid rules of conduct. Disciplinary matters are referred to Student Justice.

### Student Review Process

If a faculty member believes that a student is not making satisfactory progress or meeting program standards, he or she should discuss the situation with the student. If the faculty member believes that the student's performance cannot improve to acceptable standards, the faculty member should refer the student to the Program Standards Committee of the appropriate department. The Program Standards Committee consists of three faculty members appointed by the department chair in consultation with the department's senior faculty.

The Committee will notify the student of the reasons that he or she is not making satisfactory progress or meeting program standards and will give the student an opportunity to meet with the Committee to respond and to present information and witnesses to the Committee. The Committee will also meet with the faculty member who referred the student to the Committee. After considering the matter, and within ten working days of meeting with the student, the Committee will report its decision to the student and the department chair, stating that the student should either remain in or leave the program. The Committee may make other decisions, such as placing restrictions or conditions on the student's continuing in the program. Within ten working days of receiving the Committee's decision, the student will notify the department chair of the student's acceptance or rejection of the Committee's decision. If the student rejects the Committee's decision, he or she may appeal to the department chair.

Within ten working days of receiving the student's appeal, the chair will make a decision as to the student's continued presence in the program.

**Before making the decision, the chair will meet with the student.**

**However, the chair need not meet with the student before making a decision if the student was given a reasonable opportunity to meet, and the student either failed or refused to meet. The chair will notify the student of the decision.**

If the student is dissatisfied with the chair's decision, he or she may appeal to the dean of the appropriate college. However, in order for the dean to consider an appeal, the student must submit a written notice of appeal to the chair and the dean within ten working days of receiving the chair's decision. The dean will consider the matter based on information compiled by the chair and notify the student of the decision within ten working days of the dean's receipt of the appeal from the chair. The

dean may meet with the student and give the student an opportunity to address the issues. The dean's decision is final.

## Certification and Licensure Programs

Academic preparation for certification and licensure requirements is available in addition to majors and emphases associated with degree programs. These include certification in school counseling, principal, or superintendent, and licensure as marriage and family therapist, professional counselor, or Licensed Specialist in School Psychology. Inquiries regarding any of these certification or licensure programs should be directed to the appropriate program certification advisor. To be considered for admission to a certification or licensure program, students must meet the same admission and deadline requirements as the degree-seeking students, which are detailed on The Graduate College's website. Satisfactory performance on the TExES certification examination is required for provisional or professional certificates. Other conditions and professional tests are required by the state of Texas to be certified or licensed. It is the responsibility of the student to be aware of and to meet these conditions.

Educational leadership certification includes two distinct certifications as Texas public school administrators: principal/assistant principal, a 21- to 36-hour program, and superintendent, which requires 15 additional hours above the principal/assistant principal certification. These programs fulfill academic requirements for leadership positions such as elementary, middle, or secondary principal/assistant principal and central office positions.

Certification in counseling and guidance includes certification as a school counselor. The M.A. in professional counseling with the school counseling specialization meets state academic requirements for school counseling certification.

Licensure in professional counseling includes Texas Licensed Professional Counselor (LPC) and Texas Licensed Marriage and Family Therapist (LMFT). The professional counseling program meets the academic and practicum requirements of the Texas State Board of Examiners of Professional Counselors and the Texas State Board of Examiners of Marriage and Family Therapists.

Licensure as a Specialist in School Psychology includes both a degree program and a re-specialization plan. The school psychology program meets the academic and supervised practice standards of the Texas State Board of Examiners of Psychologists for providing psychological services in the public schools as a Licensed Specialist in School Psychology (LSSP). The program also meets the standards of the National Association of School Psychologists (NASP) for the credential of National Certified School Psychologist (NCSP). Applicants must have graduated from a master's, specialist, or doctoral program in psychology in order to be eligible for re-specialization and licensure in school psychology.

## Doctor of Philosophy (Ph.D.)

- Adult, Professional and Community Education (p. 658)
- School Improvement (p. 668)

## Master of Arts (M.A.)

- Major in Adult Education (p. 679)
- Major in Educational Leadership (p. 682)



- Major in Professional Counseling (p. 686)

## Master of Education (M.Ed.)

- Major in Educational Leadership (p. 684)
- Major in Student Affairs in Higher Education (p. 692)

## Specialist in School Psychology (S.S.P.)

- Major in School Psychology (p. 694)

## Minors

- Adult Education (p. 696)
- Counseling and Guidance (p. 696)
- Educational Leadership (p. 696)

## Certificate

- Adult English as a Second/Foreign Language (p. 692)

# Doctor of Philosophy (Ph.D.), Adult, Professional and Community Education

## Ph.D. Program

The doctoral program in adult, professional and community education is designed for individuals in a variety of educational roles who wish to develop and refine their abilities to provide leadership for educational excellence. The program prepares education professionals to individually and collaboratively engage in reflective and ethical practice as they foster the development of individual learners as well as existing and emerging learning communities, including schools, post-secondary institutions, workplaces, and community-based organizations.

The program admits students in the fall term only, and the students enroll each year as a cohort group. All students in a given cohort (including full-time and part-time students) will enroll together in each core course during the first year. All students in a given cohort who choose the same major also ordinarily enroll together in each course in the major.

## Educational Goal

The College of Education's educational goal is to provide graduates with the experience to:

1. act as change agents;
2. apply the fundamental principles of facilitating student-centered, life-long learning;
3. accommodate the diverse needs of those they teach;
4. use technology as a tool for communication, research, teaching, and learning;
5. make ethically sound decisions and articulate the values and principles that guide decision making;
6. engage in professional development and support the professional development of others;
7. conduct and use research to strengthen the ties between educational theory and practice.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/apce.html>.

## Financial Assistance

Doctoral assistantships are available to qualified candidates. Please see the Ph.D. program website (<http://apce.education.txstate.edu/future-students/dra.html>) or contact the doctoral program director for more information about assistantships and the degree program. Please see The Graduate College website for information on scholarship opportunities ([http://www.gradcollege.txstate.edu/Prospect\\_Students/Fin\\_Grad\\_Ed.html](http://www.gradcollege.txstate.edu/Prospect_Students/Fin_Grad_Ed.html)).

## Course Work

### Academic Guidance

During the first year, the student will be assigned an academic program mentor. The academic program mentor will work with the student to develop a program of study, and provide general academic and career-related advisement to the student. The doctoral program director, acting in the role of graduate advisor for the program, will submit all recommendations for the program of study and results of programs examinations to the dean of The Graduate College for approval. The dean of The Graduate College has final approval on all recommendations from the doctoral program director.

A dissertation advisor must be selected by the time a student takes the comprehensive examination; a complete dissertation committee must be formed prior to presenting a dissertation proposal for defense.

### Semester Hour Requirements

The student must complete 51 semester hours of graduate work to meet the minimum requirements for advancement to candidacy and then a minimum of 12 hours of dissertation courses to complete the degree for a minimum of 63 hours. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

### Degree Audit

In the first term that a student enrolls for doctoral study, the student should confer with their graduate advisor and prepare a degree audit for their program. Doctoral degree audits are tailored with the individual student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

### Course Work Requirements

Core	6
Major	18
Research	18
Electives	9
Dissertation	12
Total Hours	63

#### Core Courses

ED 7314	Community Development for Educators	3
ED 7312	Leadership and Organizational Change	3

#### Major Courses



ED 7321	Historical and Philosophical Foundations and Contemporary Issues in Adult Education	3	ED 7358	Theoretical and Conceptual Frameworks in Qualitative Research	3
ED 7316	Advanced Studies in Adult Development	3	ED 7361	Understanding People: Professional Development	3
ED 7318	Advanced Studies in Adult Learning	3	ED 7362	Supervision of Instruction	3
ED 7324	Problems and Strategies in Program Planning Seminar	3	ED 7363	Curriculum Design	3
ED 7322	Human Resource and Professional Development	3	ED 7371	Anthropology and Education	3
ADED 7325	Teaching Adults: Principles and Practices	3	ED 7372	The Emotions of Leading, Teaching, and Learning	3
<b>Research Courses</b>					
ED 7315	Models of Inquiry: Understanding Epistemologies	3	EDCL 7344	Campus Leadership	3
ED 7320	Literature Review for Research Writing	3	EDCL 7351	Instructional Models	3
ED 7352	Beginning Qualitative Design and Analysis	3	EDCL 7387	Field Practicum, Part I	3
ED 7351	Beginning Quantitative Research Design and Analysis	3	EDCL 7388	Field Practicum Part II	3
ED 7341	Dissertation Proposal Development	3	REC 7378	Independent Study <sup>1</sup>	3
ED 7354	Intermediate Qualitative Design and Analysis	3	REC 7389A	Current Issues in the Administration of Recreation and Leisure Services	3
or ED 7353	Intermediate Quantitative Research Design and Analysis	3	REC 7389B	Current Issues in Recreation and Leisure Services	3

<sup>1</sup> Repeatable for credit with the doctoral program director's permission.

#### Elective Courses

Select 9 hours from the Electives list below 9

#### Dissertation Courses 12

ED 7199A	Dissertation	
ED 7299A	Dissertation	
ED 7399A	Dissertation	
ED 7399B	Dissertation	
ED 7599A	Dissertation	
ED 7699A	Dissertation	
ED 7699B	Dissertation	
ED 7999A	Dissertation	

Total Hours 63

#### Electives

Courses from several College of Education departments are approved as prescribed electives and are listed below. The College of Education and the dean of The Graduate College may approve additional electives. Students should contact the doctoral program director for additional electives.

ADED 7325	Teaching Adults: Principles and Practices	3
ADED 7337	Adult Literacy	3
ADED 7342	Adult ESL Methods and Materials	3
ADED 7343	Organizational Learning and Development	3
ADED 7344	Multicultural Perspectives in Postsecondary Education and Adult Education	3
ADED 7345	Current Issues in Adult, Continuing and Professional Education	3
CI 7326	Grant Development and Management	3
CI 7378	Independent Study <sup>1</sup>	3
CI 7389A	Topics in Instructional Technology	3
COMM 7325A	Instructional Communication	3
ED 7345	Human Resources and Instructional Management	3
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ED 7349	School Finance and Business Management	3
ED 7355	Non-Parametric Research Design and Analysis	3
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## Advancement to Candidacy

### Application for Advancement to Candidacy

Doctoral students will need to be advanced to candidacy within five years of initiating Ph.D. course work. Students need to indicate their intent to advance to candidacy during the term they complete the 51 hours of required course work. The Application for Advancement to Candidacy form may be obtained from The Graduate College website. The doctoral program director will then submit the completed forms to the dean of The Graduate College for review.

### Advancement to Candidacy Time Limit

No credit will be applied toward the doctoral degree for course work completed more than five years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the doctoral program director, who in turn, submits a recommendation to the dean of The Graduate College.

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below a "B" on any graduate course may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College before a student can be approved for advancement to candidacy.

### Comprehensive Examination

The doctoral students in the Ph.D. in education program are required to pass a comprehensive examination in which the student must integrate knowledge from core and concentration courses to solve a problem that the student is likely to encounter in a professional work setting. Arrangements for comprehensive examinations are made through the director of the Ph.D. program and the dissertation advisor. The results of the examination must be filed in the office of The Graduate College before the dean of The Graduate College gives final approval of advancement

to candidacy. The Department of CLAS is responsible for submitting the reports to The Graduate College.

## Dissertation Proposal

The dissertation proposal must be successfully defended and approved by the dean of The Graduate College before a student can be advanced to candidacy. Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal form" to the dissertation advisor. Guidelines that discuss the purpose of the proposal, its preparation, its format, and procedures for its presentation and defense are available from the program director. After defending the dissertation proposal and obtaining committee members' signatures, the student must submit the dissertation proposal and dissertation proposal form to the program director for signature. The form also requires evidence of the IRB approval for any research involving human subjects. The program director will then forward the dissertation proposal and form through the department chair, to the dean of The Graduate College for final approval. Final approval must be received before proceeding with research on the dissertation. The Dissertation Proposal form may be obtained from the office of The Graduate College; proposal guidelines are also available at the website or from the doctoral program director.

## Defense of the Dissertation Proposal

Students must defend the dissertation proposal in a meeting that begins with a public presentation and continues with an oral examination by the dissertation committee. The examination will address the proposed dissertation topic (problem definition and scope), research method, and relevant literature. The dissertation committee must sign the "Defense of the Dissertation Proposal form" to indicate approval and then submit the form for the signature of the doctoral program director and the department chair. The approved Defense of the Dissertation Proposal form must be forwarded to the dean of The Graduate College. The dissertation proposal must be approved and the Defense of the Dissertation Proposal form must be on file in the office of The Graduate College before any student can be advanced to candidacy.

## Recommendation for Advancement to Candidacy

The dissertation committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair, and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy the student must have successfully completed the comprehensive exam, completed all course work, and successfully defended the dissertation proposal.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of the *Publication Manual of the American Psychological Association*.

## Dissertation Enrollment Requirements

### Enrollment

Any time a student is receiving official guidance on the dissertation, the student must be enrolled in a dissertation course. A student must maintain continuous enrollment in dissertation hours every term from the time they advance to candidacy until the dissertation is defended and approved. If a student is receiving supervision on the dissertation during

the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

Students will normally register for at least three credit hours of dissertation. With the approval of the dissertation chair and the program director, they may be allowed to register for one hour of credit (ED 7199A or ED 7199B) when working less intensely on the dissertation (more detailed explanation available from the program director). Approval is not needed to register for ED 7199A or ED 7199B in the summer. This one-credit course is ordinarily repeatable for only three times during fall or spring terms.

Education-adult, professional and community education majors will enroll in a combination of:

ED 7199A	Dissertation	1
ED 7299A	Dissertation	2
ED 7399A	Dissertation	3
ED 7399B	Dissertation	3
ED 7599A	Dissertation	5
ED 7699A	Dissertation	6
ED 7699B	Dissertation	6
ED 7999A	Dissertation	9

## Hours

Students must complete a minimum of 12 semester hours of dissertation research and writing credit.

## Fee Reduction

A doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students are expected to complete the dissertation within five years of advancement to candidacy. The dissertation committee will review the student's progress annually.

## Dissertation Advisor and Committee

A dissertation committee must be formed to oversee the research and writing of the dissertation. The dissertation committee will include a dissertation advisor and a minimum of three additional committee members.

The members must be chosen from qualified Ph.D. faculty. The dissertation advisor will chair the dissertation committee and must be from the College of Education. The committee members must be selected in consultation with the dissertation advisor. At least two members of the dissertation committee must be from the Department of Counseling, Leadership, Adult Education, and School Psychology. No more than one of the four required members of the committee should be someone external to the university (either a practitioner or a faculty member from another university approved as adjunct doctoral faculty). The doctoral program director, the department chair, and the dean of The Graduate College must approve the dissertation advisor and committee members.

## Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation advisor, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the final dissertation defense. The "Dissertation Advisor/Committee Member Change Request form" may be obtained from The Graduate College website.

## Defense of the Dissertation

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. Students must defend the dissertation in a meeting that begins with a public presentation and continues with an oral exam by the dissertation committee. Before scheduling the final oral exam, the student must have received approval of the dissertation chair. A completed "Dissertation Defense Report form" report must be submitted according to the schedule posted by the dean of The Graduate College and no later than ten days before the date of graduation.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation and abstract requires positive votes from the dissertation advisor and from a majority of the dissertation committee members. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation* for specific guidelines regarding submission of the dissertation. The document must be submitted in electronic format.

Doctoral level courses in Education: ADED (p. 661), COMM (p. 661), ED (p. 662), EDCL (p. 667), REC (p. 667), SAHE (p. 668)

## Courses Offered

### Adult Education (ADED)

#### ADED 7325. Teaching Adults: Principles and Practices.

Seminar that addresses methods and techniques for effective instruction of adults across a variety of settings and content. Emphasis on concepts, theories, and principles relevant to the selection, use, and evaluation of instructional strategies. Participants will have an opportunity to practice strategies that expand their teaching repertoire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7337. Adult Literacy.

This course is designed to provide students with a broad foundation about the needs of undereducated students with a broad foundation about the needs of undereducated adults, including adult English language learners. Students will analyze and evaluate adult literacy legislation, instruction, research, and delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7342. Adult ESL Methods and Materials.

This course reviews traditional and contemporary adult language teaching methodologies. It focuses on the design of lessons that integrate listening, speaking, reading, writing, culture and all language skills. This class provides strategies for choosing, adopting, and adapting textbooks that integrate teaching material appropriate to different adult language learning settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7343. Organizational Learning and Development.

The course addresses a range of topics, including the effects of change, methods of organizational change, and factors influencing organizational development success. Students learn the roles of internal and external organizational development consultants, tools and processes for helping organizational members identify problems, gather and analyze information, and implement solutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7344. Multicultural Perspectives in Postsecondary Education and Adult Education.

This seminar covers a broad range of topics related to diversity within postsecondary and adult education. Course readings and projects relate to a wide variety of setting including colleges and universities, adult literacy programs, the workplace, and community based organizations. Students who have completed ADED 5344 may not take this course for doctoral credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

#### ADED 7345. Current Issues in Adult, Continuing and Professional Education.

A seminar style course focusing on current issues in continuing and professional education including research and professional practice. Specific emphasis will vary depending on changes in contemporary issues. Students who have completed ADED 5345 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7346. Adult and Nontraditional Students in Higher Education.

This seminar focuses on the "nontraditional student" in higher education, with emphasis on undergraduates 25 and older. Also considered are other nontraditional students facing similar challenges to participation in higher education. Topics include student characteristics, motivations, barriers, persistence, and outcomes as well as institutional and programmatic responses to this population

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Communications (COMM)

#### COMM 7315. Directed Research in Communication Studies.

Independent study of a specific communication research area. May be repeated with different emphasis for additional credit. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 7325A. Instructional Communication.**

A review of instructional communication theory and research with an emphasis on the function of communication in instructional settings.

Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325B. Organizational Communication.**

A review of organizational communication theory and research with an emphasis on organizational development from a communication perspective. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325C. Communication Assessment.**

An in depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Education (ED)****ED 7111. Collaborative Inquiry Project, Phase I: Field-Based Assessment.**

This course involves the selection of a problem for study in the field. Students will gather and analyze needs assessment data and design an action plan for field-based research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7112. Collaborative Inquiry Project, Phase II: Field-Based Implementation.**

This course requires students to implement an action plan to solve a problem in the field that has been selected in ED 7111. Prerequisite: ED 7111 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7113. Collaborative Inquiry Project, Phase III: Field-Based Evaluation.**

This course involves the collection and analysis of data as part of a field-based action research project. Students will gather, analyze, and interpret a variety of data and prepare a written report on a field-based research project. Prerequisites: ED 7111, ED 7112 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7199A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7199B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7310. Instructional Roles in Counseling, Leadership, Adult Education & School Psychology.**

This seminar is intended to prepare graduate teaching and instructional assistants in the CLAS Department to function effectively in various instructional and instructional support roles. Required for first-year teaching assistants and GIAs. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ED 7311. Educational Philosophy in a Social Context.**

This course examines the philosophical foundations of education from the time of Plato through current writings. It frames these foundations through the lens of educational challenges of today. Readings include classical and current writings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7312. Leadership and Organizational Change.**

This course will familiarize students with different perspectives on organizations, different paradigms by which they might be viewed, and a survey of research done on organizations, organizational leadership and change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7313. Advanced Studies in Adult Learning and Development.**

This advanced seminar will examine research and theoretical literature on a variety of topics including: characteristics of adult learners; models of adult cognitive and psychosocial development; adult cognition, memory, and intelligence; and principles for facilitating adult learning. Restricted to Ph.D. in Education degree, Major in School Improvement

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ED 7314. Community Development for Educators.**

Examines models and methods of community development as relevant to the practice and scholarship of formal and non-formal education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7315. Models of Inquiry: Understanding Epistemologies.**

This course examines the philosophies informing different research epistemologies, and examples of how these can be actualized methodologically. Philosophies to be analyzed include feminism, and race-based theory. This course will help students see the multiple possibilities for conducting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7316. Advanced Studies in Adult Development.**

This course examines current theories of adult development, fundamental developmental changes in adulthood, and the implications for practice in adult education. Restricted to students admitted to the Education Ph.D. Program- APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7318. Advanced Studies in Adult Learning.**

This advanced seminar will examine research and theoretical literature on a variety of topics related to adult learning such as: characteristics and diversity of adult learners; key theories of adult learning; alternative perspectives on adult learning; intelligence, aging and wisdom; and learning in the digital age. Restricted to students admitted to the Education Ph.D. Program – APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7320. Literature Review for Research Writing.**

In this seminar course, students conduct a careful examination of a body of literature related to a research topic in adult/professional/community/lifelong education. The literature review tests research questions in relation to what is published about a topic, discusses various positions, crafts coherent arguments and addresses knowledge gaps. Prerequisites: ED 7352 or ED 7351. Restriction: Doctoral standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7321. Historical and Philosophical Foundations and Contemporary Issues in Adult Education.**

Examines historical and philosophical foundations for the study and practice of adult professional, and community education in formal and non-formal settings; and contemporary issues in adult education in a "learning society." Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7322. Human Resource and Professional Development.**

Examines the methods, practices, and issues of facilitating learning related to occupational, professional, and volunteer roles. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7323. Community/Organizational Leadership and Management.**

Examines issues and strategies related to the operation and delivery of educational programs in post-secondary, adult, and community settings.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7324. Problems and Strategies in Program Planning Seminar.**

Addresses principles and procedures, issues and trends, utilization of assessment, goal setting, and other effective strategies for developing learning opportunities and programs responsive to human, professional, and community needs. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7326. Theoretical Foundations of Educational Policy, Politics and Practice.**

This course examines the historical and theoretical underpinnings informing educational policy, politics and social justice. It addresses both the micro and macro levels of the context, values, and cultural norms guiding policy and practice in a democratic society. Prerequisites: ED 7311, ED 7312, and ED 7313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7327. Education Policy Development.**

This course equips students with the skills needed to analyze the origins and consequences of existing policy and to play active roles in policy development for educational equity and social justice. Prerequisite: ED 7326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7328. Research and Analysis in Education Policy.**

This course engages students in a field-based educational policy research project using quantitative and qualitative techniques. Students will develop their skills to identify policy issues, gather and analyze data, and draw conclusions, and disseminate findings. Prerequisites: ED 7326, ED 7327, ED 7351, and ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7329. Field-Based Experience in Educational Policy.**

This course provides fieldbased practice in policy analysis and development from a democratic and social justice perspective. With guidance from a university faculty supervisor and site mentor, the student will develop and implement a policy project related to democracy and social justice. Prerequisite: ED 7328

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7331. Foundations of School Improvement.**

Examines school improvement efforts from philosophical, political, psychological, cultural, ethical, and technological foundations. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ED 7332. Facilitating School Improvement.**

Examines school culture, schools as learning communities, the change process, and research-based school improvement models, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7333. Curriculum and Instructional Leadership.**

Examines the relationship between curriculum, instructional improvement, and teacher development, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7334. Models of Educational Assessment.**

Includes assessment of student learning at the individual, classroom, school, and system level; teacher assessment; and program assessment. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7341. Dissertation Proposal Development.**

In this course students approaching dissertation stage meet in a seminar designed to help them clarify their research problem and develop a preliminary proposal for the dissertation. Core and concentration courses must be completed with minimum grades of "B" in each course prior to taking ED 7341. Prerequisites: ED 7351, ED 7352, and ED 7353 or ED 7354 with minimum grades of "B". Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7345. Human Resources and Instructional Management.**

This course focuses on the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management, staff supervision, appraisal, and development, curriculum planning and alignment and student assessment. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7347. The Superintendency.**

This course addressed issues critical to superintendents in Texas. These include leadership, leadership assessment, school board relations, and other governance issues, management strategies, the role of public education in a democratic society, and professional ethics. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7349. School Finance and Business Management.**

This course focuses on the financing of public schools. Students will examine the school budgeting process, sources of school revenues, principals of taxation, methods of school fund accounting, and techniques of business management. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7350. Methods of Research in Education.**

This course provides an introduction to the design and analysis of quantitative and qualitative research in education. Topics included are quantitative research design, measurement, and statistical analysis. From a qualitative perspective, the course provides an introduction to the various qualitative modes of inquiry relevant to education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7351. Beginning Quantitative Research Design and Analysis.**

Includes descriptive statistics; sampling techniques; statistical inference including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA.

Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7352. Beginning Qualitative Design and Analysis.**

Introduces the qualitative paradigm. Includes distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on issues in the design and implementation of quantitative research. Topics include ANOVA, ANCOVA, and MANOVA, correlation analysis, regression analysis, nonparametric tests, and relationships between experimental designs and statistical analysis techniques. Prerequisite: ED 7351 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7354. Intermediate Qualitative Design and Analysis.**

Focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research. Prerequisite:

ED 7352 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7355. Non-Parametric Research Design and Analysis.**

This course is designed to address problems in education in situations where the sample size collected is small, categorical in nature, of non-

parametric research design and statistical methods are covered in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7357. Advanced Study in Action Research.**

This course examines underlying theory, practice, skills, and issues in action research. Conducting research in the area of action research is also addressed. This course is an appropriate elective for majors in School Improvement or Adult, Professional and Community Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Advanced study in the historical, philosophical, conceptual, and theoretical underpinnings of qualitative research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods. Prerequisites:

ED 7351 and ED 7353 with minimum grades of "B" in each course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7361. Understanding People: Professional Development.**

Fundamental issues related to development of personnel. Knowledge of staff appraisal, adult learning and development, and staff development. Focus on professional development in K-12 schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7362. Supervision of Instruction.**

Concepts of curriculum and instructional models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered as part of the internal environment. An emphasis will be placed on supervision knowledge, skills, and tasks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7363. Curriculum Design.**

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Focus on K-12 school curricula. Students who have completed EDA 6342 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7364. Team Development in Education.**

This course addresses the development and use of educational teams to improve educational organizations, teaching, and learning. Because of its focus on education, it is recommended only for doctoral students preparing for careers in educational settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7365. Cross-cultural Leadership in Education.**

Students will work as a team to undertake a research study of leadership across cultures in the U.S. and Mexico. Students must be accepted in the Education Ph.D. program. Fluency in Spanish is preferred. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ED 7371. Anthropology and Education.**

This course introduces the student to the basic concepts in anthropology and education and sketches the application of these concepts. It explores the research in anthropology and education with relevance to both K-12 schools and other, more general educational settings. The course is an appropriate elective for Education Ph.D. majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7372. The Emotions of Leading, Teaching, and Learning.**

This course offers an introduction to theories of emotion, leading, teaching, and learning as interconnected fields. Students in this course will achieve a theoretical grounding that will deepen their understandings of the relationship of emotion to all of these important human endeavors. This course will be of interest of practitioners, researchers, and/or theorists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7378. Problems in Education.**

Individual problems or topics will be designed and completed to emphasize selected areas of study. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**ED 7379. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Counseling, Leadership, Adult Education & School Psychology Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7389A. Theological Issues in Education.**

This course focuses on theological issues in education. Informed by the disciplinary structures of curriculum theory, this seminar course convokes a community of scholars and practitioners in thoughtful dialogue and study that takes up questions of spiritual, moral, and theological issues within education in a pluralistic society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389B. Seminar in International Educational Research: Chile.**

This course develops theoretical knowledge, methodological skills, and scholarly capacity for international educational research. It focuses on research within the complex educational environment of Chile, involving seminar components held at the university and research fieldwork in Chile. International research is framed as a form of service learning. Restricted to students in the PhD in Education program

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389C. Advanced Theory in Qualitative Research.**

This course features advanced study in qualitative research methods. The course studies such methods as ethnography, case study, phenomenology, narrative analysis, post-qualitative research, grounded theory, or more advanced qualitative research in general and their constitutive field techniques. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389D. Advanced Theory in Qualitative Research: Narrative Research.**

The purpose of this course is to explore the possibilities of narrative research. The course will provide an overview of narrative inquiry, look at various theories and corresponding examples of research, and explore, analyze, and interpret data using narrative methods. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389E. Mexican Perspectives on Mexico - U.S. Immigration.**

The course gives U.S. educators an understanding of Mexican to U.S. immigration from Mexican women's perspectives. Students will read background information and visit Mexico where through lectures, field interviews, and field visits, they will view immigration from the "other side". They will analyze and write up data when they return

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389G. Adult Learners in Higher Education.**

This course examines adult academic learning, instruction, and the particular challenges adults face balancing multiple life demands and often studying in a system established to meet the needs of younger students. Course may not be repeated. Maximum 3 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389L. Writing for Publication.**

Students will hone their writing skills. Students will work individually and in groups, getting feedback from other students and the instructor. Topics include APA style, getting started, first drafts, polishing and tightening, re-writing, submitting a manuscript, responding to feedback/reviews and more. Restricted to masters' and doctoral students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389M. Shifting Demographics in Texas: Exploring Education, Democracy and Healthy Communities.**

Students will explore the shifting population in Texas through multiple frames including historical, sociological, anthropological and political. Class will canvas the literature and emerging community conditions as a vehicle for imagining possible theoretical, policy and local responses to the conditions we see in schools and local communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7390. Survey Research and Scale Development.**

This course provides the technical information necessary to design and conduct a quantitative or mixed-method survey research project. The course is divided into three sections: 1) the details of scale development; 2) details of sample selection and survey delivery systems, and 3) data analysis, writing, and presenting results effectively

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7399A. Dissertation.**

Original research and writing in Adult, Professional, and Community Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), nocredit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7399B. Dissertation.**

Original research and writing in School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7599A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7599B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699A. Dissertation.**

The student conducts original research and writing in Adult, Professional, and Community Education, guided by the direct supervision of the dissertation chair. While conducting dissertation research and writing, students must be continuously enrolled. The course is graded on a credit (CR), progress (PR) or no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699B. Dissertation.**

Students produce a dissertation under direct supervision of dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. This course is graded on a credit (CR), progress (PR), or no-credit (F) basis. Prerequisites: Core, Concentration, and Methodology courses or instructor's permission

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999B. Dissertation.**

Original research and writing in Education-School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Educational Leadership (EDCL)****EDCL 7100. Educational Leaders' Continuing Professional Development.**

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated as necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7344. Campus Leadership.**

Develops the skills needed as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader. Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, as well as other skills. Prerequisites: All Level I core courses, and EDCL 6342, EDCL 6343, EDCL 6348, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7348. Public School Law.**

Examines constitutional provision, statutory laws, court decisions, and regulations governing public schools, with reference to state and federal relationships. Participants develop skills in researching and interpreting law, policy development and impact on public schools and communities. (Note: Students who took EDCL 6348 may not repeat this course for doctoral credit.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7351. Instructional Models.**

Characteristics of effective Pre-K through 12 teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Students who have completed EDCL 6351 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7387. Field Practicum, Part I.**

Students seeking Principal Certification must complete this field-based 2 semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6387 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 7388. Field Practicum Part II.**

Students seeking Principal Certification must complete this field-based 2-semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6388 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Recreation (REC)****REC 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Health, Physical Education, Recreation, and Dance Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 7389A. Current Issues in the Administration of Recreation and Leisure Services.**

Topics vary and include the study of leadership issues related to Recreation and Leisure Services. Philosophical and historical foundations of recreation, leisure, and play with the intent of providing students a leadership base upon which to interpret the recreation and leisure services profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 7389B. Current Issues in Recreation and Leisure Services.**

The purpose of this course is to develop an increased understanding of current issues in the fields of health, physical education, and recreation in order to be more effective leaders of educational organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



## Student Affairs in Higher Education (SAHE)

### SAHE 7178. Independent Study.

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

### SAHE 7278. Independent Study.

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

### SAHE 7335. Leadership in Student Affairs.

This course provides an examination of leadership in student affairs and higher education through the study of leadership and organizational theory. Additionally, the course focuses on student leadership development. Students will be prepared to utilize their knowledge of leadership theories and models to practice leadership and develop leadership in others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SAHE 7339. Foundations of Higher Education and Student Affairs Administration.

This course provides an overview and examination of the historical, philosophical, and organizational foundations of higher education and student affairs. Additionally, there is a focus on institutional programs, services, practices, and resources that support student engagement and success

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SAHE 7340. College Student Development: Theory and Practice.

This course seeks to provide in-depth understanding of developmental needs and issues of college and university students, identifies ways to enhance learning by considering developmental and environmental effects, and offers practice in creating learning opportunities that consider developmental needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SAHE 7378. Independent Study.

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

### SAHE 7379A. Gender in the Collegiate Environment.

This course examines the role of gender in higher education. Designed using feminist theory and a social justice framework, the course includes topics of gender identity development, sexual orientation, gender privilege and oppression, gender disparities in achievement and persistence, femininity, and masculinity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### SAHE 7379B. Higher Education and Student Affairs in Qatar.

This course focuses on higher education and student affairs in the country of Qatar. Qatari colleges and American higher education branch campuses in Qatar will be examined. Topics include Qatari and Arab history and culture, student affairs services in Qatar, student development and student involvement, and intercultural competence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### SAHE 7379C. Professional Development in Student Affairs.

Professional development plays an important role in student affairs. This course will allow students to learn more about professional development, professional associations, and conferences. Additionally, students will attend a professional conference and explore the theme of the conference through readings and meetings with professional association leaders and speakers

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

### SAHE 7379D. Research Methods in Student Affairs.

Understanding research is an important part of higher education administration. This course focuses on research measurement and design procedures for addressing issues in student affairs in higher education. Students will learn quantitative and qualitative methods as well as fundamentals for reviewing, understanding, and applying research literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Doctor of Philosophy (Ph.D.), School Improvement Ph.D. Program

The doctoral program in school improvement is designed for individuals in a variety of educational roles who wish to develop and refine their abilities to provide leadership for educational excellence. The program prepares education professionals to individually and collaboratively engage in reflective and ethical practice as they foster the development of individual learners as well as existing and emerging learning communities, including schools, post-secondary institutions, workplaces, and community-based organizations.

The program admits students in the fall term only, and the students enroll each year as a cohort group. All students in a given cohort (including full-time and part-time students) will enroll together in each core course during the first year. All students in a given cohort who choose the same major also ordinarily enroll together in each course in the major.



## Educational Goal

The College of Education's educational goal is to provide graduates with the experience to:

1. act as change agents;
2. apply the fundamental principles of facilitating student-centered, life-long learning;
3. accommodate the diverse needs of those they teach;
4. use technology as a tool for communication, research, teaching, and learning;
5. make ethically sound decisions and articulate the values and principles that guide decision making;
6. engage in professional development and support the professional development of others;
7. conduct and use research to strengthen the ties between educational theory and practice.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/eds.html>.

## Financial Assistance

Doctoral assistantships are available to qualified candidates. Please see the Ph.D. program website (<http://si.education.txstate.edu/Student-Resources/doc-assistantships.html>) or contact the doctoral program director for more information about assistantships and the degree program. Please see The Graduate College website for information on scholarship opportunities ([http://www.gradcollege.txstate.edu/Prospect\\_Students/Fin\\_Grad\\_Ed.html](http://www.gradcollege.txstate.edu/Prospect_Students/Fin_Grad_Ed.html)).

## Course Work

### Academic Guidance

During the first year, the student will be assigned an academic program mentor. The academic program mentor will work with the student to develop a program of study, and provide general academic and career-related advisement to the student. The doctoral program director, acting in the role of graduate advisor for the program, will submit all recommendations for the program of study and results of programs examinations to the dean of The Graduate College for approval. The dean of The Graduate College has final approval on all recommendations from the doctoral program director.

A dissertation advisor must be selected by the time a student takes the comprehensive examination; a complete dissertation committee must be formed prior to presenting a dissertation proposal for defense.

### Semester Hour Requirements

The student must complete 51 semester hours of graduate work to meet the minimum requirements for advancement to candidacy and then a minimum of 12 hours of dissertation courses to complete the degree for a minimum of 63 hours. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

## Degree Audit

In the first term that a student enrolls for doctoral study, the student should confer with their graduate advisor and prepare a degree audit for their program. Doctoral degree audits are tailored with the individual student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

## Course Work Requirements

Core	18
Major	12
Directed Applied Study	3
Research	9
Electives	9
Dissertation	12
<b>Total Hours</b>	<b>63</b>

### Core Courses

<b>Semester One</b>		
ED 7311	Educational Philosophy in a Social Context	3
ED 7364	Team Development in Education	3
<b>Semester Two</b>		
ED 7312	Leadership and Organizational Change	3
ED 7315	Models of Inquiry: Understanding Epistemologies	3

<b>Semester Three</b>		
ED 7313	Advanced Studies in Adult Learning and Development	3
ED 7314	Community Development for Educators	3

### Major Courses

ED 7331	Foundations of School Improvement	3
ED 7332	Facilitating School Improvement	3
ED 7333	Curriculum and Instructional Leadership	3
ED 7334	Models of Educational Assessment	3

### Directed Applied Study

ED 7341	Dissertation Proposal Development	3
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### Research Courses

ED 7351	Beginning Quantitative Research Design and Analysis	3
ED 7352	Beginning Qualitative Design and Analysis	3
ED 7353	Intermediate Quantitative Research Design and Analysis	3
or ED 7354	Intermediate Qualitative Design and Analysis	

### Elective Courses

Select 9 hours from the electives list below	9
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<b>Dissertation Courses</b>		<b>12</b>
ED 7199B	Dissertation	
ED 7299B	Dissertation	
ED 7399A	Dissertation	
ED 7399B	Dissertation	
ED 7599B	Dissertation	
ED 7699A	Dissertation	
ED 7699B	Dissertation	
ED 7999B	Dissertation	

<b>Total Hours</b>	<b>63</b>
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**Electives**

Courses from several College of Education departments are approved as prescribed electives and are listed below. The College of Education and the dean of The Graduate College may approve additional electives. Students should contact the doctoral program director for additional electives.

ADED 7325	Teaching Adults: Principles and Practices	3
ADED 7337	Adult Literacy	3
ADED 7342	Adult ESL Methods and Materials	3
ADED 7343	Organizational Learning and Development	3
ADED 7344	Multicultural Perspectives in Postsecondary Education and Adult Education	3
ADED 7345	Current Issues in Adult, Continuing and Professional Education	3
CI 7378	Independent Study <sup>1</sup>	3
CI 7389A	Topics in Instructional Technology	3
COMM 7325A	Instructional Communication	3
ED 7345	Human Resources and Instructional Management	3
ED 7347	The Superintendency	3
ED 7349	School Finance and Business Management	3
ED 7355	Non-Parametric Research Design and Analysis	3
ED 7357	Advanced Study in Action Research	3
ED 7358	Theoretical and Conceptual Frameworks in Qualitative Research	3
ED 7361	Understanding People: Professional Development	3
ED 7362	Supervision of Instruction	3
ED 7363	Curriculum Design	3
ED 7371	Anthropology and Education	3
ED 7372	The Emotions of Leading, Teaching, and Learning	3
REC 7378	Independent Study <sup>1</sup>	3
REC 7389A	Current Issues in the Administration of Recreation and Leisure Services	3
REC 7389B	Current Issues in Recreation and Leisure Services	3

<sup>1</sup> Repeatable for credit with the doctoral program director's permission.

**Advancement to Candidacy****Application for Advancement to Candidacy**

Doctoral students will need to be advanced to candidacy within five years of initiating Ph.D. course work. Students need to indicate their intent to advance to candidacy during the term they complete the 51 hours of required course work. The "Application for Advancement to Candidacy form" may be obtained from The Graduate College website. The doctoral program director will then submit the completed forms to the dean of The Graduate College for review.

**Advancement to Candidacy Time Limit**

No credit will be applied toward the doctoral degree for course work completed more than five years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the doctoral program director, who in turn, submits a recommendation to the dean of The Graduate College.

**Grade-Point Requirements for Advancement to Candidacy**

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below a "B" on any graduate course may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College before a student can be approved for advancement to candidacy.

**Comprehensive Examination**

The doctoral students in the Ph.D. in education program are required to pass a comprehensive examination in which the student must integrate knowledge from core and concentration courses to solve a problem that the student is likely to encounter in a professional work setting. Arrangements for comprehensive examinations are made through the director of the Ph.D. program and the dissertation advisor. The results of the examination must be filed in the office of The Graduate College before the dean of the Graduate College gives final approval of advancement to candidacy. The Department of CLAS is responsible for submitting the reports to The Graduate College.

**Dissertation Proposal**

The dissertation proposal must be successfully defended and approved by the dean of The Graduate College before a student can be advanced to candidacy. Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal form" to the dissertation advisor. Guidelines that discuss the purpose of the proposal, its preparation, its format, and procedures for its presentation and defense are available from the program director. After defending the dissertation proposal and obtaining committee members' signatures, the student must submit the dissertation proposal and dissertation proposal form to the program director for signature. The form also requires evidence of the IRB approval for any research involving human subjects. The program director will then forward the dissertation proposal and form through the department chair, to the dean of The Graduate College for final approval. Final approval must be received before proceeding with research on the dissertation. The Dissertation Proposal form may be obtained from The Graduate College website; proposal guidelines are also available at the website or from the doctoral program director.

**Defense of the Dissertation Proposal**

Students must defend the dissertation proposal in a meeting that begins with a public presentation and continues with an oral examination by the dissertation committee. The examination will address the proposed dissertation topic (problem definition and scope), research method, and relevant literature. The dissertation committee must sign the "Defense of the Dissertation Proposal form" to indicate approval and then submit the form for the signature of the doctoral program director and the department chair. The approved Defense of the Dissertation Proposal form must be forwarded to the dean of The Graduate College. The dissertation proposal must be approved and the Defense of the Dissertation Proposal form must be on file in the office of The Graduate College before any student can be advanced to candidacy.

**Recommendation for Advancement to Candidacy**

The dissertation committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair,

and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy the student must have successfully completed the comprehensive exam, completed all course work, and successfully defended the dissertation proposal.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of *Publication Manual of the American Psychological Association*.

## Dissertation Enrollment Requirements

### Enrollment

Any time a student is receiving official guidance on the dissertation, the student must be enrolled in a dissertation course. A student must maintain continuous enrollment in dissertation hours every term from the time they advance to candidacy until the dissertation is defended and approved. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

Students will normally register for at least three credit hours of dissertation. With the approval of the dissertation chair and the program director, they may be allowed to register for one hour of credit (ED 7199A or ED 7199B) when working less intensely on the dissertation (more detailed explanation available from the program director). Approval is not needed to register for ED 7199A or ED 7199B in the summer. This one-credit course is ordinarily repeatable for only three times during fall or spring terms.

Education-school improvement majors will enroll in a combination of:

ED 7199B	Dissertation	1
ED 7299B	Dissertation	2
ED 7399A	Dissertation	3
ED 7399B	Dissertation	3
ED 7599B	Dissertation	5
ED 7699A	Dissertation	6
ED 7699B	Dissertation	6
ED 7999B	Dissertation	9

### Hours

Students must complete a minimum of 12 semester hours of dissertation research and writing credit.

## Fee Reduction

A doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students are expected to complete the dissertation within five years of advancement to candidacy. The dissertation committee will review the student's progress annually.

## Dissertation Advisor and Committee

A dissertation committee must be formed to oversee the research and writing of the dissertation. The dissertation committee will include a dissertation advisor and a minimum of three additional committee members.

The members must be chosen from qualified Ph.D. faculty. The dissertation advisor will chair the dissertation committee and must be from the College of Education. The committee members must be selected in consultation with the dissertation advisor. At least two members of the dissertation committee must be from the Department of Counseling, Leadership, Adult Education, and School Psychology. No more than one of the four required members of the committee should be someone external to the University (either a practitioner or a faculty member from another university approved as adjunct doctoral faculty). The doctoral program director, the department chair, and the dean of The Graduate College must approve the dissertation advisor and committee members.

### Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation advisor, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the final dissertation defense. The "Dissertation Advisor/Committee Member Change Request form" may be obtained from The Graduate College website.

## Defense of the Dissertation

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. Students must defend the dissertation in a meeting that begins with a public presentation and continues with an oral exam by the dissertation committee. Before scheduling the final oral exam, the student must have received approval of the dissertation chair. A completed "Dissertation Defense Report form" must be submitted according to the schedule posted by the dean of The Graduate College and no later than ten days before the date of graduation.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation and abstract requires positive votes from the dissertation advisor and from a majority of the dissertation committee members. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation* for specific guidelines regarding submission of the dissertation. The document must be submitted in electronic format.

Doctoral level courses in Education: ADED (p. 672), COMM (p. 672), ED (p. 672), EDCL (p. 677), REC (p. 678), SAHE (p. 678)

## Courses Offered

### Adult Education (ADED)

#### ADED 7325. Teaching Adults: Principles and Practices.

Seminar that addresses methods and techniques for effective instruction of adults across a variety of settings and content. Emphasis on concepts, theories, and principles relevant to the selection, use, and evaluation of instructional strategies. Participants will have an opportunity to practice strategies that expand their teaching repertoire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7337. Adult Literacy.

This course is designed to provide students with a broad foundation about the needs of undereducated students with a broad foundation about the needs of undereducated adults, including adult English language learners. Students will analyze and evaluate adult literacy legislation, instruction, research, and delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7342. Adult ESL Methods and Materials.

This course reviews traditional and contemporary adult language teaching methodologies. It focuses on the design of lessons that integrate listening, speaking, reading, writing, culture and all language skills. This class provides strategies for choosing, adopting, and adapting textbooks that integrate teaching material appropriate to different adult language learning settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7343. Organizational Learning and Development.

The course addresses a range of topics, including the effects of change, methods of organizational change, and factors influencing organizational development success. Students learn the roles of internal and external organizational development consultants, tools and processes for helping organizational members identify problems, gather and analyze information, and implement solutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7344. Multicultural Perspectives in Postsecondary Education and Adult Education.

This seminar covers a broad range of topics related to diversity within postsecondary and adult education. Course readings and projects relate to a wide variety of setting including colleges and universities, adult literacy programs, the workplace, and community based organizations. Students who have completed ADED 5344 may not take this course for doctoral credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

#### ADED 7345. Current Issues in Adult, Continuing and Professional Education.

A seminar style course focusing on current issues in continuing and professional education including research and professional practice. Specific emphasis will vary depending on changes in contemporary issues. Students who have completed ADED 5345 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 7346. Adult and Nontraditional Students in Higher Education.

This seminar focuses on the "nontraditional student" in higher education, with emphasis on undergraduates 25 and older. Also considered are other nontraditional students facing similar challenges to participation in higher education. Topics include student characteristics, motivations, barriers, persistence, and outcomes as well as institutional and programmatic responses to this population

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### Communications (COMM)

#### COMM 7315. Directed Research in Communication Studies.

Independent study of a specific communication research area. May be repeated with different emphasis for additional credit. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 7325A. Instructional Communication.

A review of instructional communication theory and research with an emphasis on the function of communication in instructional settings. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### COMM 7325B. Organizational Communication.

A review of organizational communication theory and research with an emphasis on organizational development from a communication perspective. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### COMM 7325C. Communication Assessment.

An in depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

### Education (ED)

#### ED 7111. Collaborative Inquiry Project, Phase I: Field-Based Assessment.

This course involves the selection of a problem for study in the field. Students will gather and analyze needs assessment data and design an action plan for field-based research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

#### ED 7112. Collaborative Inquiry Project, Phase II: Field-Based Implementation.

This course requires students to implement an action plan to solve a problem in the field that has been selected in ED 7111. Prerequisite: ED 7111 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter



**ED 7113. Collaborative Inquiry Project, Phase III: Field-Based Evaluation.**

This course involves the collection and analysis of data as part of a field-based action research project. Students will gather, analyze, and interpret a variety of data and prepare a written report on a field-based research project. Prerequisites: ED 7111, ED 7112 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7199A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7199B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7310. Instructional Roles in Counseling, Leadership, Adult Education & School Psychology.**

This seminar is intended to prepare graduate teaching and instructional assistants in the CLAS Department to function effectively in various instructional and instructional support roles. Required for first-year teaching assistants and GIAs. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ED 7311. Educational Philosophy in a Social Context.**

This course examines the philosophical foundations of education from the time of Plato through current writings. It frames these foundations through the lens of educational challenges of today. Readings include classical and current writings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7312. Leadership and Organizational Change.**

This course will familiarize students with different perspectives on organizations, different paradigms by which they might be viewed, and a survey of research done on organizations, organizational leadership and change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7313. Advanced Studies in Adult Learning and Development.**

This advanced seminar will examine research and theoretical literature on a variety of topics including: characteristics of adult learners; models of adult cognitive and psychosocial development; adult cognition, memory, and intelligence; and principles for facilitating adult learning. Restricted to Ph.D. in Education degree, Major in School Improvement

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7314. Community Development for Educators.**

Examines models and methods of community development as relevant to the practice and scholarship of formal and non-formal education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7315. Models of Inquiry: Understanding Epistemologies.**

This course examines the philosophies informing different research epistemologies, and examples of how these can be actualized methodologically. Philosophies to be analyzed include feminism, and race-based theory. This course will help students see the multiple possibilities for conducting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7316. Advanced Studies in Adult Development.**

This course examines current theories of adult development, fundamental developmental changes in adulthood, and the implications for practice in adult education. Restricted to students admitted to the Education Ph.D. Program- APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7318. Advanced Studies in Adult Learning.**

This advanced seminar will examine research and theoretical literature on a variety of topics related to adult learning such as: characteristics and diversity of adult learners; key theories of adult learning; alternative perspectives on adult learning; intelligence, aging and wisdom; and learning in the digital age. Restricted to students admitted to the Education Ph.D. Program – APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7320. Literature Review for Research Writing.**

In this seminar course, students conduct a careful examination of a body of literature related to a research topic in adult/professional/community/lifelong education. The literature review tests research questions in relation to what is published about a topic, discusses various positions, crafts coherent arguments and addresses knowledge gaps. Prerequisites:

ED 7352 or ED 7351. Restriction: Doctoral standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ED 7321. Historical and Philosophical Foundations and Contemporary Issues in Adult Education.**

Examines historical and philosophical foundations for the study and practice of adult professional, and community education in formal and non-formal settings; and contemporary issues in adult education in a "learning society." Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7322. Human Resource and Professional Development.**

Examines the methods, practices, and issues of facilitating learning related to occupational, professional, and volunteer roles. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7323. Community/Organizational Leadership and Management.**

Examines issues and strategies related to the operation and delivery of educational programs in post-secondary, adult, and community settings. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7324. Problems and Strategies in Program Planning Seminar.**

Addresses principles and procedures, issues and trends, utilization of assessment, goal setting, and other effective strategies for developing learning opportunities and programs responsive to human, professional, and community needs. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7326. Theoretical Foundations of Educational Policy, Politics and Practice.**

This course examines the historical and theoretical underpinnings informing educational policy, politics and social justice. It addresses both the micro and macro levels of the context, values, and cultural norms guiding policy and practice in a democratic society. Prerequisites: ED 7311, ED 7312, and ED 7313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7327. Education Policy Development.**

This course equips students with the skills needed to analyze the origins and consequences of existing policy and to play active roles in policy development for educational equity and social justice. Prerequisite: ED 7326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7328. Research and Analysis in Education Policy.**

This course engages students in a field-based educational policy research project using quantitative and qualitative techniques. Students will develop their skills to identify policy issues, gather and analyze data, and draw conclusions, and disseminate findings. Prerequisites: ED 7326, ED 7327, ED 7351, and ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7329. Field-Based Experience in Educational Policy.**

This course provides fieldbased practice in policy analysis and development from a democratic and social justice perspective. With guidance from a university faculty supervisor and site mentor, the student will develop and implement a policy project related to democracy and social justice. Prerequisite: ED 7328

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7331. Foundations of School Improvement.**

Examines school improvement efforts from philosophical, political, psychological, cultural, ethical, and technological foundations.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7332. Facilitating School Improvement.**

Examines school culture, schools as learning communities, the change process, and research-based school improvement models, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7333. Curriculum and Instructional Leadership.**

Examines the relationship between curriculum, instructional improvement, and teacher development, with experiential applications.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7334. Models of Educational Assessment.**

Includes assessment of student learning at the individual, classroom, school, and system level; teacher assessment; and program assessment.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7341. Dissertation Proposal Development.**

In this course students approaching dissertation stage meet in a seminar designed to help them clarify their research problem and develop a preliminary proposal for the dissertation. Core and concentration courses must be completed with minimum grades of "B" in each course prior to taking ED 7341. Prerequisites: ED 7351, ED 7352, and ED 7353 or ED 7354 with minimum grades of "B". Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7345. Human Resources and Instructional Management.**

This course focuses on the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management, staff supervision, appraisal, and development, curriculum planning and alignment and student assessment. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7347. The Superintendency.**

This course addressed issues critical to superintendents in Texas. These include leadership, leadership assessment, school board relations, and other governance issues, management strategies, the role of public education in a democratic society, and professional ethics. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7349. School Finance and Business Management.**

This course focuses on the financing of public schools. Students will examine the school budgeting process, sources of school revenues, principals of taxation, methods of school fund accounting, and techniques of business management. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7350. Methods of Research in Education.**

This course provides an introduction to the design and analysis of quantitative and qualitative research in education. Topics included are quantitative research design, measurement, and statistical analysis. From a qualitative perspective, the course provides an introduction to the various qualitative modes of inquiry relevant to education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7351. Beginning Quantitative Research Design and Analysis.**

Includes descriptive statistics; sampling techniques; statistical inference including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7352. Beginning Qualitative Design and Analysis.**

Introduces the qualitative paradigm. Includes distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on issues in the design and implementation of quantitative research. Topics include ANOVA, ANCOVA, and MANOVA, correlation analysis, regression analysis, nonparametric tests, and relationships between experimental designs and statistical analysis techniques. Prerequisite: ED 7351 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7354. Intermediate Qualitative Design and Analysis.**

Focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research. Prerequisite: ED 7352 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7355. Non-Parametric Research Design and Analysis.**

This course is designed to address problems in education in situations where the sample size collected is small, categorical in nature, of non-parametric research design and statistical methods are covered in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7357. Advanced Study in Action Research.**

This course examines underlying theory, practice, skills, and issues in action research. Conducting research in the area of action research is also addressed. This course is an appropriate elective for majors in School Improvement or Adult, Professional and Community Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Advanced study in the historical, philosophical, conceptual, and theoretical underpinnings of qualitative research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods. Prerequisites: ED 7351 and ED 7353 with minimum grades of "B" in each course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7361. Understanding People: Professional Development.**

Fundamental issues related to development of personnel. Knowledge of staff appraisal, adult learning and development, and staff development. Focus on professional development in K-12 schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7362. Supervision of Instruction.**

Concepts of curriculum and instructional models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered as part of the internal environment. An emphasis will be placed on supervision knowledge, skills, and tasks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7363. Curriculum Design.**

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Focus on K-12 school curricula. Students who have completed EDA 6342 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7364. Team Development in Education.**

This course addresses the development and use of educational teams to improve educational organizations, teaching, and learning. Because of its focus on education, it is recommended only for doctoral students preparing for careers in educational settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7365. Cross-cultural Leadership in Education.**

Students will work as a team to undertake a research study of leadership across cultures in the U.S. and Mexico. Students must be accepted in the Education Ph.D. program. Fluency in Spanish is preferred. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ED 7371. Anthropology and Education.**

This course introduces the student to the basic concepts in anthropology and education and sketches the application of these concepts. It explores the research in anthropology and education with relevance to both K-12 schools and other, more general educational settings. The course is an appropriate elective for Education Ph.D. majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7372. The Emotions of Leading, Teaching, and Learning.**

This course offers an introduction to theories of emotion, leading, teaching, and learning as interconnected fields. Students in this course will achieve a theoretical grounding that will deepen their understandings of the relationship of emotion to all of these important human endeavors. This course will be of interest of practitioners, researchers, and/or theorists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7378. Problems in Education.**

Individual problems or topics will be designed and completed to emphasize selected areas of study. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**ED 7379. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Counseling, Leadership, Adult Education & School Psychology Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7389A. Theological Issues in Education.**

This course focuses on theological issues in education. Informed by the disciplinary structures of curriculum theory, this seminar course convokes a community of scholars and practitioners in thoughtful dialogue and study that takes up questions of spiritual, moral, and theological issues within education in a pluralistic society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389B. Seminar in International Educational Research: Chile.**

This course develops theoretical knowledge, methodological skills, and scholarly capacity for international educational research. It focuses on research within the complex educational environment of Chile, involving seminar components held at the university and research fieldwork in Chile. International research is framed as a form of service learning. Restricted to students in the PhD in Education program

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389C. Advanced Theory in Qualitative Research.**

This course features advanced study in qualitative research methods. The course studies such methods as ethnography, case study, phenomenology, narrative analysis, post-qualitative research, grounded theory, or more advanced qualitative research in general and their constitutive field techniques. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389D. Advanced Theory in Qualitative Research: Narrative Research.**

The purpose of this course is to explore the possibilities of narrative research. The course will provide an overview of narrative inquiry, look at various theories and corresponding examples of research, and explore, analyze, and interpret data using narrative methods. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389E. Mexican Perspectives on Mexico - U.S. Immigration.**

The course gives U.S. educators an understanding of Mexican to U.S. immigration from Mexican women's perspectives. Students will read background information and visit Mexico where through lectures, field interviews, and field visits, they will view immigration from the "other side". They will analyze and write up data when they return

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389G. Adult Learners in Higher Education.**

This course examines adult academic learning, instruction, and the particular challenges adults face balancing multiple life demands and often studying in a system established to meet the needs of younger students. Course may not be repeated. Maximum 3 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389L. Writing for Publication.**

Students will hone their writing skills. Students will work individually and in groups, getting feedback from other students and the instructor. Topics include APA style, getting started, first drafts, polishing and tightening, re-writing, submitting a manuscript, responding to feedback/reviews and more. Restricted to masters' and doctoral students  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**ED 7389M. Shifting Demographics in Texas: Exploring Education, Democracy and Healthy Communities.**

Students will explore the shifting population in Texas through multiple frames including historical, sociological, anthropological and political. Class will canvas the literature and emerging community conditions as a vehicle for imagining possible theoretical, policy and local responses to the conditions we see in schools and local communities  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ED 7390. Survey Research and Scale Development.**

This course provides the technical information necessary to design and conduct a quantitative or mixed-method survey research project. The course is divided into three sections: 1) the details of scale development; 2) details of sample selection and survey delivery systems, and 3) data analysis, writing, and presenting results effectively  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7399A. Dissertation.**

Original research and writing in Adult, Professional, and Community Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted  
**Grade Mode:** Credit/No Credit

**ED 7399B. Dissertation.**

Original research and writing in School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted  
**Grade Mode:** Credit/No Credit

**ED 7599A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7599B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699A. Dissertation.**

The student conducts original research and writing in Adult, Professional, and Community Education, guided by the direct supervision of the dissertation chair. While conducting dissertation research and writing, students must be continuously enrolled. The course is graded on a credit (CR), progress (PR) or no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699B. Dissertation.**

Students produce a dissertation under direct supervision of dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. This course is graded on a credit (CR), progress (PR), or no-credit (F) basis. Prerequisites: Core, Concentration, and Methodology courses or instructor's permission

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999B. Dissertation.**

Original research and writing in Education-School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Educational Leadership (EDCL)****EDCL 7100. Educational Leaders' Continuing Professional Development.**

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated as necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7344. Campus Leadership.**

Develops the skills needed as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader.

Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, as well as other skills. Prerequisites: All Level I core courses, and EDCL 6342, EDCL 6343, EDCL 6348, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**EDCL 7348. Public School Law.**

Examines constitutional provision, statutory laws, court decisions, and regulations governing public schools, with reference to state and federal relationships. Participants develop skills in researching and interpreting law, policy development and impact on public schools and communities. (Note: Students who took EDCL 6348 may not repeat this course for doctoral credit.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 7351. Instructional Models.**

Characteristics of effective Pre-K through 12 teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Students who have completed EDCL 6351 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 7387. Field Practicum, Part I.**

Students seeking Principal Certification must complete this field-based 2 semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6387 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**EDCL 7388. Field Practicum Part II.**

Students seeking Principal Certification must complete this field-based 2-semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6388 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Recreation (REC)****REC 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Health, Physical Education, Recreation, and Dance Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 7389A. Current Issues in the Administration of Recreation and Leisure Services.**

Topics vary and include the study of leadership issues related to Recreation and Leisure Services. Philosophical and historical foundations of recreation, leisure, and play with the intent of providing students a leadership base upon which to interpret the recreation and leisure services profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**REC 7389B. Current Issues in Recreation and Leisure Services.**

The purpose of this course is to develop an increased understanding of current issues in the fields of health, physical education, and recreation in order to be more effective leaders of educational organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**Student Affairs in Higher Education (SAHE)****SAHE 7178. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

**SAHE 7278. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit

**SAHE 7335. Leadership in Student Affairs.**

This course provides an examination of leadership in student affairs and higher education through the study of leadership and organizational theory. Additionally, the course focuses on student leadership development. Students will be prepared to utilize their knowledge of leadership theories and models to practice leadership and develop leadership in others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 7339. Foundations of Higher Education and Student Affairs Administration.**

This course provides an overview and examination of the historical, philosophical, and organizational foundations of higher education and student affairs. Additionally, there is a focus on institutional programs, services, practices, and resources that support student engagement and success

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 7340. College Student Development: Theory and Practice.**

This course seeks to provide in-depth understanding of developmental needs and issues of college and university students, identifies ways to enhance learning by considering developmental and environmental effects, and offers practice in creating learning opportunities that consider developmental needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 7378. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Credit/No Credit



**SAHE 7379A. Gender in the Collegiate Environment.**

This course examines the role of gender in higher education. Designed using feminist theory and a social justice framework, the course includes topics of gender identity development, sexual orientation, gender privilege and oppression, gender disparities in achievement and persistence, femininity, and masculinity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379B. Higher Education and Student Affairs in Qatar.**

This course focuses on higher education and student affairs in the country of Qatar. Qatari colleges and American higher education branch campuses in Qatar will be examined. Topics include Qatari and Arab history and culture, student affairs services in Qatar, student development and student involvement, and intercultural competence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379C. Professional Development in Student Affairs.**

Professional development plays an important role in student affairs. This course will allow students to learn more about professional development, professional associations, and conferences. Additionally, students will attend a professional conference and explore the theme of the conference through readings and meetings with professional association leaders and speakers

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379D. Research Methods in Student Affairs.**

Understanding research is an important part of higher education administration. This course focuses on research measurement and design procedures for addressing issues in student affairs in higher education. Students will learn quantitative and qualitative methods as well as fundamentals for reviewing, understanding, and applying research literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Master of Arts (M.A.), Major in Adult Education

### Major Program

The master of arts (M.A.) in adult education (ADED) is an academically rigorous program designed for individuals serving in or aspiring to leadership positions in the diverse field of adult education. Adult education, in this context, includes:

- adult basic and secondary education,
- English as a second language,
- community learning and development,
- workplace learning,
- university continuing education,
- continuing professional development, and
- organizational development.

Individuals completing this degree will be well prepared to teach, develop, evaluate, and/or administer programs in adult education or to conduct applied research regarding those programs.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/aded.html>.

## Degree Requirements

The common core curriculum prepares the educator to meet the contemporary needs of the adult learner and includes courses in adult learning and development, teaching adults, program planning, program management, and applied research. Students also complete an internship. In addition to the core curriculum, there are three concentrations in the ADED program: adult ESL, continuing and community education, and work and learning. A total of 39 hours are required for the M.A. in adult education (42 hours in the case of students in the adult ESL track who elect the thesis option). The degree includes two options: thesis and non-thesis. For the non-thesis option, the student must complete two additional electives and pass a comprehensive exam.

## Course Work Requirements

### ADED Core Courses

ADED 5321	Adult Learning and Development	3
ADED 7325	Teaching Adults: Principles and Practices	3
ADED 5344	Multicultural Perspectives in Postsecondary Education and Adult Education	3
or ADED 7344	Multicultural Perspectives in Postsecondary Education and Adult Education	
ADED 5335	Applied Research in Adult Education	3
ED 7324	Problems and Strategies in Program Planning Seminar	3
ADED 5330	Managing Adult Education	3
ADED 5384	Internship in Adult Education	3
Total Hours		21

### Adult ESL Concentration Courses (Non-thesis)

ADED 5337	Adult Literacy	3
or ADED 7337	Adult Literacy	
ADED 5338	Applied Linguistics for ESL Teachers of Adults	3
ADED 5339	Adult Literacy ESL Assessment and Evaluation	3
ADED 5340	Adult Second Language Acquisition	3
ADED 7342	Adult ESL Methods and Materials	3
Graduate Advisor Approved Elective		3
Total Hours		18

### Adult ESL Concentration Courses (Thesis)

ADED 5337	Adult Literacy	3
or ADED 7337	Adult Literacy	
ADED 5338	Applied Linguistics for ESL Teachers of Adults	3
ADED 5339	Adult Literacy ESL Assessment and Evaluation	3
ADED 5340	Adult Second Language Acquisition	3
ADED 7342	Adult ESL Methods and Materials	3
Thesis Course Work (Choose a minimum 6 hours)		6

ADED 5199B	Thesis	
ADED 5299B	Thesis	
ADED 5399A	Thesis	
ADED 5399B	Thesis	
ADED 5599B	Thesis	
ADED 5999B	Thesis	
Total Hours		21

### Continuing and Community Education Concentration Courses (Non-thesis)

ADED 5382	Foundations of Adult Education	3
ADED 5345	Current Issues in Adult, Continuing and Professional Education	3
or ADED 7345	Current Issues in Adult, Continuing and Professional Education	
Graduate Advisor Approved Electives (Choose 6 hours)		6
ADED or ED Graduate Advisor Approved Electives (Choose 6 hours)		6
Total Hours		18

### Continuing and Community Education Concentration Courses (Thesis)

ADED 5382	Foundations of Adult Education	3
ADED 5345	Current Issues in Adult, Continuing and Professional Education	3
or ADED 7345	Current Issues in Adult, Continuing and Professional Education	
ADED or ED Graduate Advisor Approved Electives (Choose 6 hours)		6
Thesis Course Work (Choose a minimum 6 hours)		6
ADED 5199B	Thesis	
ADED 5299B	Thesis	
ADED 5399A	Thesis	
ADED 5399B	Thesis	
ADED 5599B	Thesis	
ADED 5999B	Thesis	
Total Hours		18

### Work and Learning Concentration Courses (Non-thesis)

ED 7322	Human Resource and Professional Development	3
ADED 7343	Organizational Learning and Development	3
ED 7364	Team Development in Education	3
Graduate Advisor Approved Electives (Choose 1 class)		3
ADED or ED Graduate Advisor Approved Elective (Choose 6 hours)		6
Total Hours		18

### Work and Learning Concentration Courses (Thesis)

ED 7322	Human Resource and Professional Development	3
ADED 7343	Organizational Learning and Development	3
ED 7364	Team Development in Education	3
ADED or ED Graduate Advisor Approved Elective (Choose 1 class)		3
Thesis Course Work (Choose a minimum 6 hours)		6
ADED 5199B	Thesis	
ADED 5299B	Thesis	
ADED 5399A	Thesis	
ADED 5399B	Thesis	
ADED 5599B	Thesis	

ADED 5999B	Thesis	
Total Hours		18

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the

thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: ADED

## Courses Offered

### Adult Education (ADED)

#### ADED 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### ADED 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### ADED 5321. Adult Learning and Development.

This seminar will cover a range of topics of interest of professionals working with adult learners in a variety of settings, including characteristics and motivations of adult learners; theories of adult learning and intelligence; modes of adult cognitive and psychosocial development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 5330. Managing Adult Education.

This course introduces skills and concepts needed to manage adult education programs and organizations within various settings. These include (a) educational institutions such as university continuing education, community colleges, for-profit post-secondary education, and public schools; (b) government; (c) not-for-profit and other non-governmental including community organizations, and (d) business and industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 5334. Family Literacy.

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 5335. Applied Research in Adult Education.

An examination of purpose, principles, and methods of current research in adult education. Quantitative, qualitative, and mixed methods research design will be investigated as used in applied research including action research, evaluation research, and needs assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 5337. Adult Literacy.

The course is designed to provide students with a broad foundation about the needs of undereducated adults, including adult English language learners. Students will analyze and evaluate adult literacy legislation, instruction, research, and delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### ADED 5338. Applied Linguistics for ESL Teachers of Adults.

This course is designed to provide language teachers a practical introduction to the elements of the English language as applied to the teaching of ESL in adult settings; specifically, the course covers English syntactic structure, morphology, and phonology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5339. Adult Literacy ESL Assessment and Evaluation.**

This course is an introduction to assessment of adult students with emphasis on literacy and ESL populations. It is an overview of assessment constructs and social and historical movements in student literacy assessment and evaluation traditional assessment and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5340. Adult Second Language Acquisition.**

This course covers topics related to contemporary adult second language acquisition practices. It also examines the complexities of adult second language acquisition and the ways in which limited English-proficient adults learn more efficiently. Class readings and projects address a variety of issues dealing with adult second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5344. Multicultural Perspectives in Postsecondary Education and Adult Education.**

This seminar covers a broad range of topics related to diversity within postsecondary and adult education. Course readings and projects relate to a wide variety of settings including colleges and universities, adult literacy programs, the workplace, and community-based organizations. Students taking ADED 5344 may not take ADED 7344 for doctoral level credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ADED 5345. Current Issues in Adult, Continuing and Professional Education.**

A seminar style course focusing on current issues in continuing and professional education including research and professional practice. Specific emphasis will vary depending on changes in contemporary issues. Students taking ADED 5345 may not take ADED 7345 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5378. Problems in Adult Education.**

This course is designed to examine topical problems faced by practitioners in adult education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5382. Foundations of Adult Education.**

This course will provide an overview of the field of adult education in its various forms and settings. Topics include (1) historical origins of adult education as a field of study and practice, (2) philosophical perspectives, (3) organization and delivery of adult education, and (4) emerging developments and issues in the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5384. Internship in Adult Education.**

The 150-clock hour internship is required of all Adult Education majors. The experience involves instruction and/or administration in an adult education setting and includes orientation to the roles, responsibilities, and functions of professionals in adult education. Graded on a credit (CR), no credit (F) basis. Prerequisites: ADED 5321, ADED 5330, ED 7324, ADED 7325

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Adult Education 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Educational Leadership

### Major Program

The purpose of the educational leadership program is to prepare leaders for the schools of Texas. The program offers graduate work leading to the master's degree in educational leadership and certification as a principal (for students who already hold a master's degree) or superintendent (for students with a master's degree and a principal certificate). If you have questions about admission to the educational leadership program you may contact the coordinator of the educational leadership program.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/edcl.html>.

### Degree Requirements

Students who wish to exercise leadership beyond the classroom but not become a principal may choose the master of arts (non-thesis) in educational leadership with a specialization in instructional



leadership (36 hours). The degree will enable to student to enhance their instructional leadership skills and to assume a leadership position as a master teacher, mentor teacher, department chair, team leader, or curriculum specialist.

## Course Work Requirements

### Instructional Leadership Concentration (Non-thesis)

#### Education Course Work

EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	3
EDCL 5345	Understanding People: Professional Development	3
EDCL 5348	Supervision of Instruction	3
EDCL 6342	Curriculum Design	3
EDCL 6343	Continuous School Improvement	3
EDCL 6351	Instructional Models	3
EDCL 6352	School as Center of Inquiry	3
EDCL 6358	Integrative Seminar	3

#### Minor Course Work

Choose a 12 hour minor (Needs advisor approval)	12
<b>Total Hours</b>	<b>36</b>

Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: EDCL

## Courses Offered

### Educational Leadership (EDCL)

#### EDCL 5100. Educational Leaders' Continuing Professional Development.

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated once if necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5339. Understanding Self: Developing a Personal Vision of Leadership.

Successful leadership in organizational settings requires an understanding of human behavior. This understanding begins with the knowledge of self and leads to the understanding of others. The focus of this course is on the individual student. The intent is to enhance the student's self-awareness of values, beliefs, and attitudes related to successful school leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5340. Shaping Organizations and Using Inquiry: Management and Leadership.

This course includes an understanding of the basic structural components of educational organizations and the theoretical frameworks that describe organizational behavior. Students will focus on the process of action research, planning, decision-making, change in organizations, and leadership. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5345. Understanding People: Professional Development.

This course includes fundamental issues related to the development of personnel, entry-level knowledge of staff appraisal, adult learning and development, and staff development. Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5347. Understanding Environments: Social, Political, Economic, Legal, and Technological.

Concepts of the internal and external environment of educational organizations are explored. Entry level concepts are presented in areas of school environments. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5348. Supervision of Instruction.

Concepts of curriculum and instructional leadership models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered part of the internal environment of schools. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5388. Problems in Administration.

Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 6342. Curriculum Design.

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Course may not be taken concurrently with EDCL 5348. Prerequisite: All Level I core courses or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 6343. Continuous School Improvement.

Applies the concept and principles of Total Quality Improvement to schools and classrooms and integrates Total Quality Improvement with other school improvement models. Prerequisite: All Level I core courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 6344. Campus Leadership.

Develop student skills as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader. Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, and other skills as a campus leader would assume. Prerequisites: All Level I core courses; and EDCL 6342, EDCL 6343, and EDCL 6348, or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**EDCL 6345. Human Resources and Instructional Management.**

This course applies principles of leadership to the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management including staff supervision, staff appraisal, staff development, curriculum planning and alignment, and student assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6347. The Superintendency.**

This course addresses issues critical to superintendents in Texas. These include leadership and leadership development, school board-superintendent relations, management strategies, the role of public education in a democratic society, and professional ethics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6348. School Law.**

This course examines the constitutional provisions, statutory laws, court decisions, and regulations governing public schools with special reference to state and federal relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6349. School Finance and Business Management.**

This course applies principles of leadership to the financing of public schools. Students will develop skills in projecting district revenues, budgeting development and analysis, sources of school revenue, principles of taxation, financial accountability, and techniques relevant to the effective leadership of school business matters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6351. Instructional Models.**

Characteristics of effective teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Prerequisites: All Level I and II courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6352. School as Center of Inquiry.**

Prepares the educational leader to be an intelligent consumer of research and to assume a leadership role in school-wide action research. This course is a prerequisite for EDCL 6358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6358. Integrative Seminar.**

This course integrates key theories, concepts, and principles learned during the student's course of study. The student will complete a paper including an action research plan designed to solve an educational problem present within a specific educational setting. The master's student will defend the plan during the oral examination. Prerequisites: Levels I, II and EDCL 6352 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6387. Field-Based Practicum.**

The practicum provides students the opportunity to develop leadership skills needed by principals of elementary and secondary schools. Students will develop a practicum proposal in cooperation with their site-mentor and university supervisor. The course focus is on the development of administrative skills in a real world setting. Prerequisites: 27 hours of course work including EDCL 6352 or permission of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 6388. Principal's Field-Based Practicum II.**

This course is a continuation of EDCL 6387 and allows students to continue projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. This course is offered in the spring semester only. Prerequisites: EDCL 6358 and EDCL 6387

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 6389. Superintendent's Practicum I.**

The practicum is intended to give prospective school superintendents the opportunity to hone their leadership skills under the guidance an experienced and successful school leader. Offered fall semester only and may be taken concurrently with other superintendent certification courses

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 6390. Superintendent's Practicum II.**

A continuation of EDCL 6389, this course allows students to carry through projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. Offered spring semester only. May be taken concurrently with other superintendent certification courses. Prerequisite: EDCL 6389

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Education (M.Ed.), Major in Educational Leadership

### Major Program

The purpose of the educational leadership program is to prepare leaders for the schools of Texas. The program offers graduate work leading to the master's degree in educational leadership and certification as a principal (for students who already hold a master's degree) or superintendent (for students with a master's degree and a principal certificate). If you have questions about admission to the educational leadership program you may contact the coordinator of the educational leadership program.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/edcl.html>.

### Degree Requirements

The primary degree offered by the program is the master of education which includes principal certification (36 semester hours). The degree will enable the student to enhance their instructional leadership skills

and to assume a leadership position as a master teacher, mentor teacher, department chair, team leader, or curriculum specialist.

## Course Work Requirements

### Principal Certification Concentration (Non-thesis)

#### Level I Requirements

EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	3
EDCL 5340	Shaping Organizations and Using Inquiry: Management and Leadership	3
EDCL 5345	Understanding People: Professional Development	3
EDCL 5347	Understanding Environments: Social, Political, Economic, Legal, and Technological	3
EDCL 5348	Supervision of Instruction	3

#### Level II Requirements

EDCL 6342	Curriculum Design	3
EDCL 6344	Campus Leadership	3
EDCL 6348	School Law	3
EDCL 6352	School as Center of Inquiry	3

#### Level III Requirements

EDCL 6358	Integrative Seminar	3
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#### Level IV Requirements

EDCL 6387	Field-Based Practicum	3
EDCL 6388	Principal's Field-Based Practicum II	3

Total Hours		36
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Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: EDCL

## Courses Offered

### Educational Leadership (EDCL)

#### EDCL 5100. Educational Leaders' Continuing Professional Development.

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated once if necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5339. Understanding Self: Developing a Personal Vision of Leadership.

Successful leadership in organizational settings requires an understanding of human behavior. This understanding begins with the knowledge of self and leads to the understanding of others. The focus of this course is on the individual student. The intent is to enhance the student's self-awareness of values, beliefs, and attitudes related to successful school leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5340. Shaping Organizations and Using Inquiry: Management and Leadership.

This course includes an understanding of the basic structural components of educational organizations and the theoretical frameworks that describe organizational behavior. Students will focus on the process of action research, planning, decision-making, change in organizations, and leadership. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5345. Understanding People: Professional Development.

This course includes fundamental issues related to the development of personnel, entry-level knowledge of staff appraisal, adult learning and development, and staff development. Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5347. Understanding Environments: Social, Political, Economic, Legal, and Technological.

Concepts of the internal and external environment of educational organizations are explored. Entry level concepts are presented in areas of school environments. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5348. Supervision of Instruction.

Concepts of curriculum and instructional leadership models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered part of the internal environment of schools. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 5388. Problems in Administration.

Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 6342. Curriculum Design.

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Course may not be taken concurrently with EDCL 5348. Prerequisite: All Level I core courses or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### EDCL 6343. Continuous School Improvement.

Applies the concept and principles of Total Quality Improvement to schools and classrooms and integrates Total Quality Improvement with other school improvement models. Prerequisite: All Level I core courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6344. Campus Leadership.**

Develop student skills as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader. Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, and other skills as a campus leader would assume. Prerequisites: All Level I core courses; and EDCL 6342, EDCL 6343, and EDCL 6348, or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6345. Human Resources and Instructional Management.**

This course applies principles of leadership to the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management including staff supervision, staff appraisal, staff development, curriculum planning and alignment, and student assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6347. The Superintendency.**

This course addresses issues critical to superintendents in Texas. These include leadership and leadership development, school board-superintendent relations, management strategies, the role of public education in a democratic society, and professional ethics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6348. School Law.**

This course examines the constitutional provisions, statutory laws, court decisions, and regulations governing public schools with special reference to state and federal relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6349. School Finance and Business Management.**

This course applies principles of leadership to the financing of public schools. Students will develop skills in projecting district revenues, budgeting development and analysis, sources of school revenue, principles of taxation, financial accountability, and techniques relevant to the effective leadership of school business matters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6351. Instructional Models.**

Characteristics of effective teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Prerequisites: All Level I and II courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6352. School as Center of Inquiry.**

Prepares the educational leader to be an intelligent consumer of research and to assume a leadership role in school-wide action research. This course is a prerequisite for EDCL 6358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6358. Integrative Seminar.**

This course integrates key theories, concepts, and principles learned during the student's course of study. The student will complete a paper including an action research plan designed to solve an educational problem present within a specific educational setting. The master's student will defend the plan during the oral examination. Prerequisites: Levels I, II and EDCL 6352 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDCL 6387. Field-Based Practicum.**

The practicum provides students the opportunity to develop leadership skills needed by principals of elementary and secondary schools. Students will develop a practicum proposal in cooperation with their site-mentor and university supervisor. The course focus is on the development of administrative skills in a real world setting. Prerequisites: 27 hours of course work including EDCL 6352 or permission of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**EDCL 6388. Principal's Field-Based Practicum II.**

This course is a continuation of EDCL 6387 and allows students to continue projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. This course is offered in the spring semester only. Prerequisites: EDCL 6358 and EDCL 6387

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**EDCL 6389. Superintendent's Practicum I.**

The practicum is intended to give prospective school superintendents the opportunity to hone their leadership skills under the guidance an experienced and successful school leader. Offered fall semester only and may be taken concurrently with other superintendent certification courses

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**EDCL 6390. Superintendent's Practicum II.**

A continuation of EDCL 6389, this course allows students to carry through projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. Offered spring semester only. May be taken concurrently with other superintendent certification courses. Prerequisite: EDCL 6389

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Professional Counseling

### Major Program

The master of arts (M.A.) with a major in professional counseling consists of three specializations:

- clinical mental health counseling,
- marital, couple and family counseling, and
- school counseling.

These three areas of specialization in the professional counseling major have required course sequences that build skills through three levels, from basic to advanced, via didactic and experiential activities. The curriculum includes core foundations in theories, interventions,

assessment, and research. In addition, core tenets that are emphasized throughout the program include diversity, ethics, professional development, and self-awareness. There is a strong emphasis on experiential learning integrated with the application of didactic, research-based knowledge. Internship is required as the capstone experience. The specializations in community counseling; marital, couple, and family counseling; and school counseling are nationally accredited by the Council for Accreditation of Counseling and Related Programs (CACREP).

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/coun.html>.

## Degree Requirements

The master of arts (M.A.) with a major in professional counseling consists of three specializations. Two specializations with a minimum of 60 semester hours are **clinical mental health counseling** and **marital, couple, and family counseling**. Both areas of specialization meet academic requirements for the Texas Licensed Professional Counselor (LPC) credential. The marital, couple, and family counseling specialization also meets academic requirements for the Texas Licensed Marriage and Family Therapist (LMFT) credential. A third area of specialization is a 55-hour program in **school counseling**.

A grade of "B" or better must be earned in all course work counting toward a professional counseling degree.

## Course Work Requirements

### Professional Counseling Core Requirements

#### Foundational Course Work

COUN 5305	Assessment in Counseling	3
COUN 5307	Theories of Counseling and Personality	3
COUN 5316	Counseling Diverse Populations	3
COUN 5350	Advanced Counselor Ethics	3
COUN 5355	Career Counseling	3
COUN 5368	Developmental Issues in Counseling Children, Adolescents, and Adults	3
COUN 5391	Research Methods	3

#### Intermediate Requirements

COUN 5358	Dynamics & Processes in Group Counseling	3
COUN 5354	Basic Techniques in Counseling	3
COUN 5359	Psychopathology in Clinical Mental Health Counseling	3
COUN 5369	Child and Adolescent Counseling Methods	3
Total Hours		33

### Clinical Mental Health Counseling Specialization (Non-thesis)

COUN 5301	Professional Counseling Orientation	3
COUN 5344	Substance Abuse and Counseling: An Introduction	3
COUN 5367	Marital and Family Counseling: Current Theories	3
Graduate Advisor Approved Electives (Choose 3 hours)		3
Clinical Requirement (Choose 1 class)		3
COUN 5366	Intermediate Methods in Adult Counseling	
COUN 5370	Intermediate Methods in Counseling Adolescents	
COUN 5373	Intermediate Methods in Play Therapy	

COUN 5389	Site-Based Internship (Taken twice)	6
COUN 5689	Clinical Practicum	6
Total Hours		27

### Clinical Mental Health Counseling Specialization (Thesis)

COUN 5301	Professional Counseling Orientation	3
COUN 5344	Substance Abuse and Counseling: An Introduction	3
COUN 5367	Marital and Family Counseling: Current Theories	3
Graduate Advisor Approved Electives (Choose 3 hours)		3
Clinical Requirement (Choose 1 class)		3
COUN 5366	Intermediate Methods in Adult Counseling	
COUN 5370	Intermediate Methods in Counseling Adolescents	
COUN 5373	Intermediate Methods in Play Therapy	
COUN 5389	Site-Based Internship (Taken twice)	6
COUN 5689	Clinical Practicum	6
Thesis Courses (Choose a minimum 6 hours)		6
COUN 5199B	Thesis	
COUN 5299B	Thesis	
COUN 5399A	Thesis	
COUN 5399B	Thesis	
COUN 5599B	Thesis	
COUN 5999B	Thesis	
Total Hours		33

### Marital, Couple and Family Counseling Specialization (Non-thesis)

COUN 5301	Professional Counseling Orientation	3
COUN 5367	Marital and Family Counseling: Current Theories	3
COUN 5372	Assessment and Treatment in Marriage and Family Counseling	3
COUN 5360	Intermediate Methods in Marital, Couple and Family Counseling	3
COUN 5389	Site-Based Internship (Taken twice)	6
COUN 5689	Clinical Practicum	6
COUN 5351	Current Issues in Marriage, Couple and Family Therapy	3
Total Hours		27

### Marital, Couple and Family Counseling Specialization (Thesis)

COUN 5301	Professional Counseling Orientation	3
COUN 5367	Marital and Family Counseling: Current Theories	3
COUN 5372	Assessment and Treatment in Marriage and Family Counseling	3
COUN 5360	Intermediate Methods in Marital, Couple and Family Counseling	3
COUN 5389	Site-Based Internship (Taken twice)	6
COUN 5689	Clinical Practicum	6
COUN 5351	Current Issues in Marriage, Couple and Family Therapy	3
Thesis Courses (Choose a minimum 6 hours)		6
COUN 5199B	Thesis	
COUN 5299B	Thesis	
COUN 5399A	Thesis	
COUN 5399B	Thesis	
COUN 5599B	Thesis	



COUN 5999B Thesis		
Total Hours	33	
<b>School Counseling Specialization (Non-thesis)</b>		
COUN 5328	Professional Orientation in School Counseling: Leadership, Advocacy, and Accountability	3
COUN 5338	Advanced Issues in School Counseling: Counseling, Consultation, and Coordination of Services	3
COUN 5373	Intermediate Methods in Play Therapy	3
COUN 5370	Intermediate Methods in Counseling Adolescents	3
COUN 5389	Site-Based Internship	3
COUN 5689	Clinical Practicum	6
Total Hours	21	

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using**

**university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: COUN



## Courses Offered

### Counseling (COUN)

#### **COUN 5158. Group Counseling Pre-Practicum.**

This course is an experiential study of group dynamics, processes, and applications. Group stages, tasks and skills of group members and leaders, and the importance of developing an understanding of the therapeutic value of group, are covered. This course involves role-played participation in a group designed to closely resemble a real-life group experience. Students will participate as co-leader as well during the semester. Graded on a credit (CR), no credit (F) basis. Corequisite: COUN 5358

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **COUN 5178. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated twice for additional credit at the discretion of the department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **COUN 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **COUN 5301. Professional Counseling Orientation.**

Community-based Counseling is presented as a basis for counselors who intend on working in community counseling agencies. This course includes theoretical and applied information based on a variety of settings, as well as a variety of intervention strategies, presented via didactic and experiential coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5305. Assessment in Counseling.**

Problems and principles of administration, scoring and interpreting group and individually administered tests; utilization of test data for diagnostic, placement, predictive, and evaluative purposes; elementary statistical procedures; laboratory activities in test administration, scoring, and interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5307. Theories of Counseling and Personality.**

This course surveys systematically derived theories of counseling and personality from their origins in social discourse, philosophy, and psychology to the present time. Each theorist is presented biographically and the theory considered with regard to its clinical, cultural, and ethical relevance and application to diverse populations. Prerequisite: COUN 5350 preferred

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5316. Counseling Diverse Populations.**

This seminar is designed to sensitize students to the roles societal power disparities, therapist's racial identity and awareness, and client racial/cultural identity play in counseling persons of diverse backgrounds. The dynamics of counseling clients who are African-American, Asian-American, female, gay/lesbian, Latino/a, Native-American, and persons with disabilities, will be examined. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

#### **COUN 5328. Professional Orientation in School Counseling: Leadership, Advocacy, and Accountability.**

Orientation to identity and role of professional school counselors, and introduction to the study of comprehensive developmental guidance programs. Course reflects the Texas and ASCA Models with related standards. Topics include: program planning, implementation, and evaluation; use of data and accountability; leadership role; and ethical and legal practices in schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5330. Assessment Applications in Child & Adolescent Counseling.**

This course emphasizes a hands-on approach to the assessments most frequently used by school counselors and child and adolescent counselors. Topics include assessment measures, statistical and research concepts, program evaluation and interpretation. Implications for counseling are also addressed. Prerequisites: COUN 5328 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5338. Advanced Issues in School Counseling: Counseling, Consultation, and Coordination of Services.**

Course covers advanced topics in counseling children and adolescents in schools. Emphasis will be placed on developmentally appropriate preventative and responsive counseling services. Consultation and collaboration with parents, school personnel, and community partners, as well as contextual issues in school counseling, will be addressed. Prerequisites: COUN 5328, COUN 5316, COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **COUN 5340. Loss and Grief Recovery Counseling.**

An in-depth study of loss and its aftermath, grief. Emphasis is given to the counseling literature, loss and grief in the arts, personal loss experience, and particular counseling interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5344. Substance Abuse and Counseling: An Introduction.**

This course focuses on chemical dependency across counseling settings, including school, agency, and private practice. This course includes theoretical and applied information on causative factors, assessment, and treatment strategies across a variety of settings and populations via didactic and experimental coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5345. Psychodrama Methods.**

The course is both didactic and experimental. It provides a history of therapeutic drama beginning with the Greek theater of Dionysus. The work of J.L. Moreno is presented and the basic tenets of the theory studied. Students then engage in creating, producing, and acting out actual psychodramatic productions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5346. Filial Therapy.**

Theoretical and practical application of the filial model will be addressed as well as techniques in training parents in the overall principles and methodology of child-centered play therapy. Graded on a credit (CR), no credit (F) basis. Corequisite: COUN 5689 or COUN 5389 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5350. Advanced Counselor Ethics.**

An introduction to the counseling profession as practiced in a variety of clinical and human service settings. Emphasis is placed on the philosophical and psychological foundations of mental health counseling, personal/professional traits and skills of effective counselors, professional ethics, licensure, credentialing and professional regulation, and contemporary professional issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5351. Current Issues in Marriage, Couple and Family Therapy.**

This course provides students with information regarding special issues in marital, couple and family counseling, including: grief and loss; domestic violence; substance abuse in the family; lesbian, gay, bisexual, and transgender issues; divorce; and re-parenting. Prerequisite: COUN 5316 and COUN 5367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5354. Basic Techniques in Counseling.**

This course is designed to introduce the student to basic counseling skills via role-play and videotape. The course also provides a general model of effective counseling, including basic communication skills and theory techniques. Prerequisite: COUN 5307 with a minimum grade of "B"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5355. Career Counseling.**

Career choice and development are considered as critical aspects of persons in material cultures where occupation is a major component of one's identity. Career concerns often addressed in counseling are presented and discussed along with the area of vocational guidance, occupational information, and preference inventories

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5358. Dynamics & Processes in Group Counseling.**

An intensive laboratory experience requiring highly active student participation in the form of honest, direct, and open communication combined with authentic self-exploration within the group setting. Through participation and required reading, students will gain first-hand familiarity with the basic principles of the dynamics that are characteristic of therapeutic groups. Prerequisites: COUN 5354 and COUN 5307. Corequisite: COUN 5158

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5359. Psychopathology in Clinical Mental Health Counseling.**

The principles of understanding dysfunction in human behavior and systemic organization. This course includes diagnostic, preventive, and remedial methods and interventions. Prerequisite: COUN 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5360. Intermediate Methods in Marital, Couple and Family Counseling.**

Marital, couple, and family theory and techniques are discussed, selected, applied, and refined through lecture and supervised clinical practice. Specific skills include joining, diagnosis, goal formulation, treatment planning, termination, referral, and record keeping. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5354, COUN 5359, COUN 5367, and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5362. Practicum in Professional Supervision: Theories and Applications.**

Provides experience in supervising practicum or intern students and integrating the theoretical foundations and current issues of professional supervision. Emphasis includes ethical, multicultural, gender, age, and lifestyle concerns in supervisory relationships, and academic requirements for supervisory status for Texas Licensed Professional Counselor and Licensed Specialist in School Psychology credentials. Course can be repeated once for credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5366. Intermediate Methods in Adult Counseling.**

Counseling theories and techniques are discussed, selected, applied and refined through lecture and supervised practice. Specific skills include initiating the helping relationship process, diagnosis, goal formulation, treatment planning, termination, referral, and record keeping. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5354 and COUN 5359

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5367. Marital and Family Counseling: Current Theories.**

This course is designed to examine the principles of communication and the goals of marital, couple and family counseling. Selected theories, approaches and techniques used in marital, couple and family counseling will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5368. Developmental Issues in Counseling Children, Adolescents, and Adults.**

Emphasis will be on understanding the interactions between the developmental needs of each of these age groups and counseling techniques and procedures used to deliver mental health services to each of these groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5369. Child and Adolescent Counseling Methods.**

Course focus is an overview of counseling interventions with children and adolescents in agency, school, and private practice. Group, individual, and systems techniques will be covered. Assessment of child psychopathology and techniques for consulting with parents will be included. Prerequisites: COUN 5354 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5370. Intermediate Methods in Counseling Adolescents.**

This course will provide an overview of the physical, social, psychological, and behavioral characteristics of the adolescent. This course has a supervised practice experience. Emphasis will be placed on counseling interventions utilizing current research. Prerequisites: COUN 5316, COUN 5359 and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5372. Assessment and Treatment in Marriage and Family Counseling.**

This course addresses the assessment of individual, couple, and family functioning and the planning and implementation of marital, couple and family treatment methods. Prerequisite: COUN 5367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5373. Intermediate Methods in Play Therapy.**

This course explores the philosophical basis for play therapy, the history of play therapy, theoretical applications, techniques, stages, ethical issues, and application to a variety of populations and diagnostic categories. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5359 and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5375. Intermediate Methods in School Counseling.**

This course emphasizes the skills needed to work with school aged children (Pre-K - 12). Students will learn counseling interventions specific to school aged children, and they will work with one student over the course of the semester. In addition, students will lead one group outside of the class in order to receive full credit for the course. Prerequisites: COUN 5328 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5378. Problems in Counseling.**

Individual problems not related to thesis. Designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5380. Introduction to Animal-Assisted Therapy.**

Animal-assisted therapy (AAT) is the incorporation of qualified animals into therapeutic settings. This course will provide an introduction to the animal-assisted therapy field, the human-animal bond, evidence-based research in AAT, various therapeutic settings, and positive training approaches. Instructor approval is required for enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5381. Sandtray Therapy Methods.**

This course provides students with the philosophical basis for sandtray therapy as a therapeutic intervention for children and families, including a review of its history, applications, techniques, stages, and ethical issues. Didactic and experiential methods are used. Prerequisite: COUN 5369. Co-requisite: COUN 5389 or COUN 5689 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5389. Site-Based Internship.**

An on-site practicum-internship occurring in a school or agency setting with supervision by on-site and university supervisors. May be repeated based on the recommendation of the counseling faculty. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5689, recommendation of COUN 5689 supervisor, and consent of COUN 5389 supervisors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5391. Research Methods.**

Research, measurement, and design procedures for addressing issues in school psychology, counseling, and education. A research project is required of each student

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in COUN 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5689. Clinical Practicum.**

This practicum includes counseling clients in university-affiliated counseling clinics, and a staffing seminar. May be taken up to three times (18 credit hours) based on the recommendation of the counseling faculty. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5301, COUN 5328, COUN 5358, and all required coursework completed or departmental permission

**6 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**COUN 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Education (M.Ed.), Major in Student Affairs in Higher Education

### Major Program

The master of education (M.Ed.) with a major in student affairs in higher education (SAHE) focuses on preparing students to work in post-secondary and higher education student support services. This comprehensive, cohort-based, application-oriented program is grounded in developmental and learning theory. It celebrates diversity in faculty and student background, experience and culture, and offers practical exposure to the array of careers in student affairs. The innovative curriculum is shaped by student and practitioner participation and is responsive to research and new approaches in the field of student affairs.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at [www.gradcollege.txstate.edu/sahe.html](http://www.gradcollege.txstate.edu/sahe.html) (<http://mycatalog.txstate.edu/graduate/education/counseling-leadership-adult-school-psychology/student-affairs-higher-education-med/> [www.gradcollege.txstate.edu/sahe.html](http://www.gradcollege.txstate.edu/sahe.html)).

### Course Work Requirements

**Foundations**

SAHE 5390	Student Affairs Functions and Professional Orientation	3
SAHE 7339	Foundations of Higher Education and Student Affairs Administration	3
SAHE 7340	College Student Development: Theory and Practice	3
COUN 5391	Research Methods	3

**Professional Studies**

SAHE 5322	Governance and Legal Issues in Higher Education	3
SAHE 5323	Assessment, Strategic Planning, and Evaluation in Student Affairs	3
SAHE 5354	Basic Helping Skills	3
SAHE 5392	Student Affairs Capstone: The Application of Principles and Theories to Case Studies	3
SAHE 5393	Multicultural Practice and Social Justice in Student Affairs	3
SAHE 7335	Leadership in Student Affairs	3

**Theory to Practice**

SAHE 5388	Internship I - Student Affairs (Taken twice)	6
<b>Electives</b>		
Choose 6 hours in consultation with graduate advisor		6
<b>Total Hours</b>		<b>42</b>

Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: SAHE (p. 692)

Doctoral level courses in Counseling, Leadership, Adult Education, and School Psychology: SAHE (p. 693)

## Courses Offered

### Student Affairs in Higher Education (SAHE) - Master's Level

#### SAHE 5311. Advising and Facilitating Diverse Student Groups and Organizations.

Designed for student affairs professionals, this course focuses on effectively advising and facilitating a diverse array of student groups and organizations. Topics include: collaboration, group facilitation, conflict resolution/mediation, supervision, crisis intervention, mentoring, multicultural competence, teamwork, and teambuilding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### SAHE 5322. Governance and Legal Issues in Higher Education.

This course provides for the identification and understanding of the legal issues, which influence institutions of higher education. There is also a focus on how postsecondary institutions are governed by Boards of Regents as well as both state and federal governments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### SAHE 5323. Assessment, Strategic Planning, and Evaluation in Student Affairs.

This course covers the theoretical bases for assessment techniques; research design; strategic planning; developing, managing, and evaluating student affairs programs including information management and computer applications in higher education; and methods of needs analysis applicable to college student populations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### SAHE 5354. Basic Helping Skills.

This course will assist students with the development of basic communication, crisis assessment, and referral skills, through the use of role playing and modeling. It provides didactic and experiential activities to facilitate the acquisition of skills essential to helping in the student affairs context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### SAHE 5388. Internship I - Student Affairs.

With a focus on bridging theory and practice, Internship I focuses on applying professional and theoretical knowledge to a student affairs internship setting and making meaning of one's internship experience. The course involves in-class meetings and clocked internship hours. Repeatable with departmental approval. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit



**SAHE 5390. Student Affairs Functions and Professional Orientation.**

This course covers the history of student affairs in higher education; the context in which student affairs exists in higher education; the theories used in student affairs work and its philosophical foundations; and the mission, goals, and programs of selected functions in student affairs  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 5392. Student Affairs Capstone: The Application of Principles and Theories to Case Studies.**

Utilizing case study format, students examine the application of Student Affairs theories and principles to significant issues, functions, and problems that student affairs administrators manage in work settings. Topics include ethical decision-making, management and leadership problems, human resource development, governance and legal issues, finance and budgeting, and evaluation and assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 5393. Multicultural Practice and Social Justice in Student Affairs.**

This course focuses on the awareness, knowledge, and skills necessary to be multiculturally competent and socially just student affairs professionals. Additionally, the course focuses on diverse characteristics and needs of contemporary college students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Student Affairs in Higher Education (SAHE) - Doctoral Level****SAHE 7178. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7278. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7335. Leadership in Student Affairs.**

This course provides an examination of leadership in student affairs and higher education through the study of leadership and organizational theory. Additionally, the course focuses on student leadership development. Students will be prepared to utilize their knowledge of leadership theories and models to practice leadership and develop leadership in others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7339. Foundations of Higher Education and Student Affairs Administration.**

This course provides an overview and examination of the historical, philosophical, and organizational foundations of higher education and student affairs. Additionally, there is a focus on institutional programs, services, practices, and resources that support student engagement and success

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7340. College Student Development: Theory and Practice.**

This course seeks to provide in-depth understanding of developmental needs and issues of college and university students, identifies ways to enhance learning by considering developmental and environmental effects, and offers practice in creating learning opportunities that consider developmental needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7378. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7379A. Gender in the Collegiate Environment.**

This course examines the role of gender in higher education. Designed using feminist theory and a social justice framework, the course includes topics of gender identity development, sexual orientation, gender privilege and oppression, gender disparities in achievement and persistence, femininity, and masculinity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379B. Higher Education and Student Affairs in Qatar.**

This course focuses on higher education and student affairs in the country of Qatar. Qatari colleges and American higher education branch campuses in Qatar will be examined. Topics include Qatari and Arab history and culture, student affairs services in Qatar, student development and student involvement, and intercultural competence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379C. Professional Development in Student Affairs.**

Professional development plays an important role in student affairs. This course will allow students to learn more about professional development, professional associations, and conferences. Additionally, students will attend a professional conference and explore the theme of the conference through readings and meetings with professional association leaders and speakers

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**SAHE 7379D. Research Methods in Student Affairs.**

Understanding research is an important part of higher education administration. This course focuses on research measurement and design procedures for addressing issues in student affairs in higher education. Students will learn quantitative and qualitative methods as well as fundamentals for reviewing, understanding, and applying research literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Specialist in School Psychology (S.S.P.), Major in School Psychology

### Major Program

The specialist in school psychology (S.S.P.) program is fully approved by the National Association of School Psychologists as a specialist-level degree that includes a 1200-clock-hour internship. The curriculum meets state and national standards for specialist-level training in school psychology. It includes didactic and experiential course work in data-based decision-making, problem solving, evidence-based interventions, and interactions among family, school, and community systems.

School psychology may not serve as a minor for other programs. Graduates of the program are eligible to apply for the following credentials: Licensed Specialist in School Psychology and/or Licensed Psychological Associate from the Texas State Board of Examiners of Psychologists; and Nationally Certified School Psychologist from the National School Psychology Certification Board.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/schpsy.html>.

### Course Work Requirements

#### Required Courses

SPSY 5300	Interviewing, Counseling, and Consulting in School Psychology	3
SPSY 5376	Psychoeducational Assessment	3
SPSY 5377	Social, Emotional, and Behavioral Assessment	3
SPSY 5387	Data-Based Decision-Making in Evaluation and Intervention	3
SPSY 5379	Child and Adolescent Psychopathology: Advanced Assessment and Interventions	3
SPSY 5380	Individual and Group Counseling Techniques for School Psychology	3
SPSY 5385	Ethics, Standards, and Procedures in Professional School Psychology	3
SPSY 5386	Consultation and Professional Issues in School Psychology	3
SPSY 5388	Psychometrics for School Psychologists	3
SPSY 5389	Practicum in School Psychology	3
SPSY 5389	Practicum in School Psychology	3
SPSY 5389	Practicum in School Psychology	3
SPSY 5394	Multicultural Issues in School Psychology	3
SPSY 5396	Biological Bases of Behavior	3

SPSY 5398	Alternative Evaluation, Intervention, and Student Outcomes	3
SPSY 6301	Professional Internship in School Psychology	3
SPSY 6302	Professional Internship in School Psychology	3

#### Composite Minor Courses

PSY 5370	Learning, Cognition, and Motivation	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPSY 5355	Assessment of Culturally and Linguistically Diverse Students	3

Elective Course (per advisor) 3

#### Elective Course Work:

SPSY 5382	Program Evaluation in School Psychology	3
Elective Course (per advisor)		3

Total Hours 69

Master's level courses in Counseling, Leadership, Adult Education, and School Psychology: SPSY

### Courses Offered School Psychology (SPSY)

#### SPSY 5178. Independent Study.

This course includes individual problems or research topics designed to place emphasis on selected areas of study. It may be repeated for additional credit at the discretion of the department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### SPSY 5300. Interviewing, Counseling, and Consulting in School Psychology.

This course includes acquisition of skills for conducting interviews, counseling, consulting, and collaborating with children, adolescents, and adults. The emphasis is upon the development of basic communication skills that can be applied by the school psychologist in a variety of multicultural contexts, with an emphasis on family-school collaboration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SPSY 5355. Assessment of Culturally and Linguistically Diverse Students.

This course will focus on the psychoeducational assessment of students from culturally and linguistically diverse backgrounds for purposes of special education eligibility and for instructional decision making. A major emphasis is placed on learning nonbiased assessment methods and procedures to assess language proficiency, intelligence, academic skills and personality-behavioral functioning. Restricted to students in the School Psychology SSP Program. Prerequisite: SPSY 5394 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5356. Psycholinguistics of Second Language Acquisition.**

This course will focus on the linguistic and psycholinguistic underpinnings of the bilingual brain. It will provide a comprehensive introduction to the foundations of bilingualism, covering language processing, and language acquisition. Topics will include simultaneous and sequential bilingualism, language selection and switching, cognitive consequences of bilingualism, and the bilingual brain. Restricted to students in the School Psychology SSP program. Prerequisites: SPSY 5394 and SPSY 5355 with grades of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5376. Psychoeducational Assessment.**

This course focuses on the administration, scoring, and interpretation of individually administered standardized tests of intelligence, special abilities, and achievement. The theoretical and statistical bases of the tests used, integrative report writing, and learning disabilities are also covered. Prerequisites: Enrollment in a graduate program and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5377. Social, Emotional, and Behavioral Assessment.**

This course covers the evaluation of personality, mental status, and behavior. This includes the theoretical bases, construction, administration, scoring, and interpretation of structured and projective personality tests with integrative report writing emphasizing the assessment of emotional disturbance and behavior disorders. Prerequisites: PSY 5376 or its equivalent, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5378. Problems - School Psychology.**

This course includes individual problems not related to thesis or research problems. It is designed to place emphasis on selected areas of study. It may be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5379. Child and Adolescent Psychopathology: Advanced Assessment and Interventions.**

This course includes the advanced investigation of personality dynamics and diagnosis of psychopathology through advanced projective techniques and structured instruments. Students practice comprehensive report writing emphasizing intervention recommendations. Prerequisites: PSY 5376 and PSY 5377, or the equivalents, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5380. Individual and Group Counseling Techniques for School Psychology.**

This course focuses on the acquisition and practice of techniques used in counseling interventions with children and adolescents in school settings. Individual and group counseling techniques are emphasized, along with a review and refinement of techniques for interviewing and consulting with parents. Prerequisites: COUN 5368, COUN 5307, and SPSY 5300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5382. Program Evaluation in School Psychology.**

This course introduces the theory and techniques of program evaluation with an emphasis on K-12 educational settings. It includes program evaluation conceptualization, planning, implementation, methodological and ethical issues, and analyzing and reporting results. Emphasis is placed on experimental and quasi-experimental methods commonly used in the evaluation of educational programs. Restricted to students in the School Psychology SSP program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5385. Ethics, Standards, and Procedures in Professional School Psychology.**

This course includes the presentation of historical foundations, role and functions, and procedures used by psychologists in the school setting. Emphasis includes ethical and legal issues, professional standards, state and federal law, and organization and operation of the schools as applied to the mental health and education of exceptional learners. Prerequisite: Enrollment in the School Psychology Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5386. Consultation and Professional Issues in School Psychology.**

This course presents models of consultation as they apply to the professional development and ethical position of the school psychologist. The course emphasizes the consultative role in relation to school administrators, guidance and counseling personnel, teachers, parents, students, and referral sources. Prerequisites: Completion of SPSY 5300, SPSY 5385, and concurrent enrollment in SPSY 5389

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5387. Data-Based Decision-Making in Evaluation and Intervention.**

This course covers advanced techniques for assessment of special populations, including early childhood, and integration of information from a variety of sources for the development of educational interventions. A problem solving approach that focuses on linking evaluation and intervention processes will be utilized throughout the course. Prerequisite: SPSY 5376

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5388. Psychometrics for School Psychologists.**

This course includes theoretical and empirical aspects of psychological measurement, scale development and testing for school psychologists. Topics include the statistical foundations of psychological measurement; stimulus and response-based measurement; social, legal, and ethical implications of testing; test and item bias; score reliability and validity; factor analysis; generalizability theory; and item response theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5389. Practicum in School Psychology.**

Three practicum experiences occur in a school or agency setting with supervision by on-site and university supervisor. This course must be repeated for a total of nine credit hours. Graded on a credit (CR), no credit (F) basis. Prerequisites: Completion of SPSY 5385, and SPSY 5376, graduate standing in the School Psychology Program, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SPSY 5391. Research Seminar.**

This course provides students with knowledge of the nature and techniques of social science research. Students will develop research literacy through critical reading and examination of both quantitative and qualitative research. Additional emphasis is given to the relationship and application of science to professional practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SPSY 5394. Multicultural Issues in School Psychology.**

The course provides a broad overview of the psychosocial, psychoeducational and multicultural issues surrounding the delivery of psychoeducational services to students in school systems. The course will help the student develop cross-cultural sensitivity when conducting assessments, providing consultation and performing other interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5396. Biological Bases of Behavior.**

This course covers atypical disorders of brain development or function, particularly those likely to be encountered in the practice of school psychology. It includes an overview of neuropsychological and other tests with emphasis on development of a comprehensive assessment and intervention model through interpretation and critique or case studies. Prerequisite: Completion of SPSY 5376, SPSY 5377, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5398. Alternative Evaluation, Intervention, and Student Outcomes.**

This course introduces students to the practice of curriculum based assessment in the context of a problem solving model of psychological services in the schools. Lectures, assignments, and activities develop competencies in the areas of non-traditional assessment, development of academic interventions, and the evaluation of student outcomes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 6301. Professional Internship in School Psychology.**

Professional internship may be a continuation of the supervised school based experience or a placement in an appropriate alternative setting with supervision by a licensed psychologist. A minimum of 600 clock hours of experience is required. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPSY 6302. Professional Internship in School Psychology.**

Professional internship may be a continuation of the supervised school based experience or a placement in an appropriate alternative setting with supervision by a licensed psychologist. A minimum of 600 clock hours of experience is required. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Adult Education

ADED 5321	Adult Learning and Development	3
ADED or ED Graduate Advisor Approved Electives		9
Total Hours		12

## Minor in Counseling and Guidance

Choose 1 class from the following: 3

COUN 5301	Professional Counseling Orientation	
COUN 5328	Professional Orientation in School Counseling: Leadership, Advocacy, and Accountability	
COUN 5367	Marital and Family Counseling: Current Theories	
COUN 5307	Theories of Counseling and Personality	3
COUN 5354	Basic Techniques in Counseling	3
COUN 5358	Dynamics & Processes in Group Counseling	3
Total Hours		12

## Minor in Educational Leadership

Students who wish to pursue educational leadership as a minor for another graduate program of study must meet all program admission requirements. If you have questions about admission to the educational leadership program you may contact the coordinator of the educational leadership program.

EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	3
EDCL 5340	Shaping Organizations and Using Inquiry: Management and Leadership	3
EDCL 5345	Understanding People: Professional Development	3
EDCL 5347	Understanding Environments: Social, Political, Economic, Legal, and Technological	3
EDCL 5348	Supervision of Instruction	3
Total Hours		15

## Certificate in Adult English as a Second/Foreign Language Certificate Program

The certificate in adult English as a second/foreign language is designed for individuals who desire to teach, design, and coordinate English as a second/foreign language (ESL or EFL) education programs for adults in community colleges, study abroad programs, and profit and not-for-profit institutions offering adult ESL/EFL instruction. Objectives for the certificate include preparing instructors through:

- Studying and discussing research related to contemporary adult ESL/EFL learning practices,
- Exploring theoretical perspectives supporting innovative adult ESL/EFL methodologies and approaches to assessing/testing adult students' language learning,
- Articulating the relationships and connections between assessment/testing of student performance and program evaluation,
- Designing activities that support and enhance inclusive adult ESL/EFL learning environments that cultivate respect for different cultural and linguistic backgrounds,
- Designing activities and materials to teach listening, speaking, reading, and writing to adult ESL/EFL students, keeping in mind integration of language skills, and

- Making informed/appropriate decisions when choosing textbooks, teaching materials, and assessment/evaluation methods congruent with program and student needs.

## Course Work Requirements

First Semester	Hours	Second Semester	Hours	Third Semester	Year 1 Hours
ADED 5340	3	ADED 5344	3	ADED 5339	3
ADED 7342	3	ADED 5338	3	ADED 5384 or 5337	3
	6		6		6

Total Hours: 18

## Admission Policy

For information regarding admission requirements and deadlines, please visit The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html)

## Department of Curriculum and Instruction

Education Building Room 3044  
T: 512.245.2157 F: 512.245.7911  
<http://www.txstate.edu/ci>

The Department of Curriculum and Instruction (C&I) offers a variety of degrees and programs, both master's and doctoral, that are intended to enhance the professional development and career goals of teachers and other educators. C&I also offers post-baccalaureate initial teaching certificates (available only to those not already certified) that may be obtained at the graduate level with or without the master's degree. Before proceeding into any field of education at Texas State, the degree applicant should inquire as to certification requirements associated with or prerequisites to the degree. Those seeking initial teacher certification must keep in mind that certification requirements and graduate degree requirements may not be related and that the satisfactory completion of degree requirements may not always lead to certification. You will find more information on specific programs as well as contact information on the College of Education and Department of C&I websites. For additional information regarding requirements for admittance to teacher certification, please visit the Office of Educator Preparation website.

## Background Requirements

Students seeking either a master's degree or certification combined with a master's degree can typically begin their studies without completing background or leveling classes. An exception to this would be approximately 6-9 hours of college level math, speech communication, computer literacy, and 6 hours of English composition necessary for students seeking initial teacher certification. Additionally, students seeking initial secondary teacher certification may be required to take additional undergraduate or graduate course work in their desired teaching fields. Note: Criminal background checks are required by Texas law for all teachers, and no one convicted of a felony may be certified to teach in Texas.

## Post-Baccalaureate Programs

- **Post-Baccalaureate Initial Teaching Certification** serves individuals who have earned bachelor's degrees in fields other than education. Students may earn EC-6, 4-8, or 7-12 certification by taking graduate level courses that may count toward a graduate degree.
- **Professional Certificates** are also available for the reading specialist and educational diagnostician.

## Initial Certification Options

An individual may seek initial teacher certification as a post-baccalaureate student in several of the certification areas offered by the State of Texas. Satisfactory performance on a State Board for Educator Certification test is required for provisional or professional certificates in education. For updated information please go to the website for The Office of Educator Preparation at: <http://www.education.txstate.edu/oep/>. **Note:** Criminal background checks are required by Texas law for all teachers, and no one convicted of a felony may be certified to teach in Texas.

## Supplementary Certificates (Endorsements)

*These certifications may be added to a teaching certificate.*

Supplementary certificates (formerly called endorsements) are offered in addition to majors and specializations associated with the degree programs in bilingual/bicultural, educational reading specialist, gifted and talented education, and special education. Satisfactory performance on a State Board for Educator Certification test is required for provisional or professional certificates in education.

## Bilingual Education Certificate

These courses are required for bilingual education:

RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5374	Bilingual/ESL Content Area Instruction	3
CI 5387	Bilingual Education: Principles and Practices	3

## Generic Special Education Certificate

These courses are required for generic special education:

SPED 5311	Teaching Language Arts to Students with Disabilities	3
SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5340	Principles and Practices of Effective Instruction	3
SPED 5327	Educating Students with Autism and Other Developmental Disabilities	3
SPED 5334	Assessment and Evaluation of Students with Disabilities	3
SPED 5360	Survey of Exceptionality	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5389	Special Education Practicum	3

## Gifted and Talented Education Certificate

These courses are required for gifted and talented education:

CI 5308	Introduction to Gifted/Talented Education	3
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CI 5309	Talent Development	3
CI 5310	Creativity: Theories, Research, and Applications	3
CI 5311	Practicum in Talent Development	3
CI 5319	Social, Emotional, and Cultural Contexts of Advanced Development	3

## Student Fitness and Performance Program Standards

Students enrolled in all academic programs in The Graduate College must maintain high scholastic standards and develop a mastery of the knowledge and methods of their respective discipline. Students are expected to demonstrate emotional and mental fitness in their interactions with others, use skills and methods that are generally accepted by others in the profession, and conform to the code of ethics of their respective discipline, and the university's honor code. A student's acceptance in any program does not guarantee the student's fitness to remain in that program. The faculty is responsible for verifying that only those students who continue to meet program standards are allowed to continue in any program.

### Evaluation of Student Fitness and Performance

Members of the faculty, using their professional judgments, evaluate student fitness and performance continuously. The criteria used by the faculty to make such judgments include instructors' observations of student performance in class or in activities related to courses, evaluations of student performance on theses and practica, site supervisors' evaluations of student performance in practica, and the codes of ethics noted above. Students who are not making satisfactory progress or who are not meeting program standards should consider withdrawing from the program.

In this context, the term "satisfactory progress" refers to an academic judgment made regarding the student's fitness and performance. It is a judgment that the student has failed to meet program standards rather than a judgment made on the basis of the student's violation of valid rules of conduct. Disciplinary matters are referred to Student Justice.

### Student Review Process

If a faculty member believes that a student is not making satisfactory progress or meeting program standards, he or she should discuss the situation with the student. If the faculty member believes that the student's performance cannot improve to acceptable standards, the faculty member should refer the student to the Program Standards Committee of the appropriate department. The Program Standards Committee consists of three faculty members appointed by the department chair in consultation with the department's senior faculty.

The Committee will notify the student of the reasons that he or she is not making satisfactory progress or meeting program standards and will give the student an opportunity to meet with the Committee to respond and to present information and witnesses to the Committee. The Committee will also meet with the faculty member who referred the student to the Committee. After considering the matter, and within ten working days of meeting with the student, the Committee will report its decision to the student and the department chair, stating that the student should either remain in or leave the program. The Committee may make other decisions, such as placing restrictions or conditions on the student's continuing in the program. Within ten working days of receiving the Committee's decision, the student will notify the department chair of the student's acceptance or rejection of the Committee's decision. If the

student rejects the Committee's decision, he or she may appeal to the department chair.

Within ten working days of receiving the student's appeal, the chair will make a decision as to the student's continued presence in the program. Before making the decision, the chair will meet with the student. However, the chair need not meet with the student before making a decision if the student was given a reasonable opportunity to meet, and the student either failed or refused to meet. The chair will notify the student of the decision.

If the student is dissatisfied with the chair's decision, he or she may appeal to the dean of the appropriate college. However, in order for the dean to consider an appeal, the student must submit a written notice of appeal to the chair and the dean within ten working days of receiving the chair's decision. The dean will consider the matter based on information compiled by the chair and notify the student of the decision within ten working days of the dean's receipt of the appeal from the chair. The dean may meet with the student and give the student an opportunity to address the issues. The dean's decision is final.

## Doctor of Philosophy (Ph.D.)

- Major in Developmental Education (p. 710)

## Doctor of Education (Ed.D.)

- Major in Developmental Education (p. 699)

## Master of Arts (M.A.)

- Major in Developmental Education (p. 723)
- Major in Elementary Education (p. 735)
- Major in Elementary Education-Bilingual/Bicultural (p. 759)
- Major in Secondary Education (p. 801)

## Master of Education (M.Ed.)

- Major in Educational Technology (p. 780)
- Major in Elementary Education (p. 747)
- Major in Elementary Education-Bilingual/Bicultural (p. 770)
- Major in Reading Education (p. 790)
- Major in Secondary Education (p. 812)
- Major in Special Education (p. 823)

## Minors

- Developmental Education (p. 834)
- Developmental Education (Community College Support) (p. 834)
- Elementary Education (p. 834)
- Elementary Education-Bilingual/Bicultural (p. 834)
- Gifted & Talented Education (p. 835)
- Methods & Materials (p. 835)
- Reading Education (p. 835)
- Secondary Education (p. 836)
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## Certificates

- Autism (p. 836)
- Behavioral Disorders/Positive Behavioral Support (p. 836)
- Developmental Education (p. 836)



- Learning Disabilities/Inclusion (p. 837)

## Doctor of Education (Ed.D.), Major in Developmental Education

### Doctoral Program

The Department of Curriculum and Instruction in the College of Education at Texas State offers a Ed.D. in developmental education (DE) that produces highly-qualified program leaders and practitioners in DE programs. The Ed.D. is designed to fill the urgent need for advanced research in an emerging field that serves those who are underprepared for postsecondary education.

### Program Mission Statement

The doctoral program in developmental education within the Department of Curriculum and Instruction prepares future scholars, researchers, leaders, administrators, instructors, and practitioners in the field of developmental education. Both rigorous and supportive, the program aims to advance theory, research, and practice in multiple areas of developmental education — including developmental literacy, learning support, and developmental mathematics — by actively engaging students in teaching, scholarship, and professional service. As a multidisciplinary program, the faculty, staff, and students work collaboratively across various academic disciplines, diverse communities, and geographic boundaries.

### Educational Goal

Major educational objectives for the programs include the following:

- To prepare DE professionals who engage in divergent and critical thinking, are culturally competent, and are skilled in maximizing technology applications for learning and communication;
- To prepare DE professionals who understand and can respond to the nature and needs of students who enroll in DE programs; the complexities of motivation, teaching, learning, and assessment in DE settings; the cultural, political, and social systems that create inequities in educational settings; and the structure and management of DE programs;
- To prepare DE professionals with sophisticated research skills that will enable them to critically evaluate DE programs and practices and implement research agendas that will inform practice and policy;
- To prepare DE professionals who will serve as leaders in the DE profession who can engage in institutional leadership, program administration, and innovative program development and evaluation that will promote systemic change and improvement.

### Admission Policy

For more information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/deved.html>.

### Course Work

#### Advising

Advising in the doctoral program in developmental education takes three forms: the initial advisor, the program mentor, and the dissertation advisor. When students are first admitted, they are assigned an initial advisor who mentors them from entry through their first year benchmarks in the program. By the end of the first year, students formally ask a

faculty member to be their program mentor who advises them from the end of their first year until their comprehensive exams. At a time no later than the completion of their comprehensive exams, students then select a dissertation advisor who is the chair of their dissertation committee, which must be formed at that time. These advising roles can be assumed by the same faculty member or different faculty members depending on students' research interests and foci.

### Semester Hour Requirements

Course work grounded in developmental education theory and research	15
Research methodology	12
Specialization in developmental education literacy, developmental education mathematics, or learning support	21
Elective choices that reflect significant issues in developmental education and research methodology	6
Dissertation	12
<b>Total Hours</b>	<b>66</b>

Students may transfer a maximum of six semester hours of doctoral-level credit earned at another accredited institution if it bears a letter grade of B or higher pending approval by the dean of The Graduate College. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must satisfy the residency requirement of 18 graduate credit hours.

### Course Work Requirements

#### Required Foundation Courses

DE 7301	Understanding Developmental Education Learners in a Diverse Society	3
DE 7302	Policy and Politics in Developmental Education	3
DE 7303	Teaching and Learning in Developmental Education	3
DE 7305	Multicultural Education in a P-16 Context	3
DE 7380	Managing Developmental Education Programs	3

#### Required Research Courses

CI 7101	Introduction to the Research Experience	1
CI 7101	Introduction to the Research Experience	1
CI 7101	Introduction to the Research Experience	1
CI 7351	Beginning Quantitative Research Design and Analysis	3
CI 7352	Beginning Qualitative Design and Analysis	3

#### Research Elective

Select one of the following:		3
CI 7353	Intermediate Quantitative Research Design and Analysis	
CI 7354	Intermediate Qualitative Design and Analysis	

#### Specialization Electives

Select seven courses from the list below	21
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#### Other Courses

Select two additional courses	6
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#### Dissertation Courses

Take 12 hours from the following:	12	
DE 7199	Dissertation	
DE 7299	Dissertation	
DE 7399	Disseration	

DE 7599	Dissertation	
DE 7699	Dissertation	
DE 7999	Dissertation	
Total Hours		66

## Specialization Elective Courses

Courses from several College of Education departments are approved as prescribed electives and are listed below. The College of Education and the dean of The Graduate College may approve additional electives. Students should contact the doctoral program director for additional electives.

### Developmental Literacy

#### Developmental Literacy

RDG 7301	Theory and Research of Literacy	3
RDG 7302	Theory and Research of College Basic Literacy	3
RDG 7303	Theory and Research of College Academic Literacy	3
RDG 7304	Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers	3
RDG 7305	Theory and Research of College Literacy Assessment	3
RDG 7306	Literacy Research Seminar	3
RDG 7307A	New Literacy Studies	3
RDG 7307B	Community Literacy	3
ENG 7300	Language Problems in a Multicultural Environment	3
ENG 7316	Foundations in Rhetoric and Composition	3
ENG 7317	Specializations in Rhetoric and Composition	3
ENG 7326	Contemporary Composition Theory	3
ENG 7383	Studies in Rhetorical Theory	3
DE 7381	Practicum	3
CI 7303	Educational and Psychological Measurement and Assessment	3
CI 7360	Designing Educational Research	3

### Learning Support

#### Learning Support

DE 7321	The Community College	3
DE 7322	Learning Support Centers in Postsecondary Settings	3
DE 7323	Academic Support for Students with Learning Disabilities	3
DE 7324	Teaching Learning Strategies and Critical Thinking	3
DE 7325	Advising Developmental Students	3
DE 7381	Practicum	3
CI 7326	Grant Development and Management	3
CI 7303	Educational and Psychological Measurement and Assessment	3
CI 7360	Designing Educational Research	3

### Developmental Mathematics

#### Developmental Mathematics

MATH 7111	Seminar in Teaching	1
MATH 7188	Seminar in Mathematics Education	1
MATH 7302	History of Mathematics	3
MATH 7306	Current Research in Math Education	3
MATH 7324	Curriculum Design & Analysis	3

MATH 7328	Instructional Techniques & Assessments	3
MATH 7366A	Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors)	3
MATH 7366E	Developmental Mathematics Curriculum	3
MATH 7378A	Problem Solving, Reasoning, and Proof	3
MATH 7378B	Connecting and Communicating Math	3
MATH 7378E	Developmental Mathematics Perspectives	3
MATH 7386	Independent Study in Mathematics Education	3
MATH 7396	Mathematics Education Research Seminar	3
CI 7303	Educational and Psychological Measurement and Assessment	3
CI 7360	Designing Educational Research	3
DE 7381	Practicum	3

## Program Plan

In their first term, students will construct a program plan with the assistance of their initial advisor. The program plan is a focused, detailed description of the doctoral student's proposed course work, specialization, and goals for the doctoral program. The program plan will be submitted to the doctoral program plan committee for approval and suggestions. The program plan must include the following:

- goal statement that includes doctoral study goals (including specialization) and future professional goals
- professional curriculum vitae
- course work plan. This is the appropriate place for petitioning for course transfer for graduate work done previously (there is a 5-year time limit on any course work counting toward candidacy).

The student should work with their advisor for direction while completing the program plan prior to submitting it to the program plan committee. It is **due to the program plan committee by November 15** in the fall term of the student's first year of study. After the program plan committee reviews the student's program plan, a meeting may be scheduled with the student for further review of the plan.

## Advancement to Candidacy

### Application for Advancement to Candidacy

Once all course work (except for dissertation course work) has been completed, the comprehensive exams have been passed, and the dissertation proposal has been successfully defended, doctoral students will apply for advancement to candidacy. Candidacy must be achieved within five (5) years of initiating program course work. No credit will be applied toward the doctoral degree for course work completed more than five (5) years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions. Requests for a time extension must be made to the program, which in turn submits a recommendation to The Graduate College. Achieving doctoral candidacy allows the student to begin doctoral dissertation research. Candidacy forms are found here: [http://www.gradcollege.txstate.edu/Fac\\_Resources/Forms.html](http://www.gradcollege.txstate.edu/Fac_Resources/Forms.html).

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below a "B" on any graduate course may apply toward a doctorate at Texas State. Incomplete grades

must be cleared through The Graduate College before a student can be approved for advancement to candidacy.

## Comprehensive Exams

In the doctoral program in developmental education, the comprehensive exam is designed both to prepare students for the dissertation stage as well as demonstrate their readiness for dissertation research, and is achieved through a process that reflects the kinds of tasks that are a part of the vast majority of dissertations.

There are TWO options for your comprehensive exams. Students and their program mentors will discuss each and decide which option better aligns with the student's background, program goals, and dissertation goals. This information will be considered by the program plan committee as well.

Neither option is "greater" or "lesser" than the other, and both options are designed to cover the same processes and achieve the same control over salient aspects of empirical research. The main difference is that the Two-project Option has a more scaffolded and formal literature review, while the One-project Option includes data collection and analysis.

### Overview of Comprehensive Exam Options

With advisor and program plan committee's assistance, the student chooses which comprehensive exam option to undertake:

#### Two-project Option of Comprehensive Exams

In the Two-project Option, students will undertake two parts to the comprehensive exam. Part I is the **Control of Literature** and Part II is the **Control of Research**. Part I, Control of Literature, is a structured, critical review of literature in the field. Part II, Control of Research, is an exhaustive proposal for an empirical research study. Part I must be completed before Part II and students must successfully complete both Part I and Part II in order to be admitted to candidacy.

#### One-project Option of Comprehensive Exams

In the One-project Option of Comprehensive Exams, students complete all aspects of a small-scale empirical research study – the **Pilot Research Project** – including research design, literature support, original data collection and analysis, and producing a written manuscript of publishable quality. Students must pass both the written portion (the manuscript) and the oral portion (the committee defense) of the project in order to be admitted to candidacy.

## Dissertation Proposal

At a time no later than the completion of their Comprehensive Exams, students must select a dissertation advisor. After selecting their dissertation advisor, and before beginning their dissertation proposal, students will form a dissertation committee that will provide technical support for the inception, conduct, and completion of the dissertation research study and evaluate the final product. The student will undertake the research and write the dissertation under the guidance of their dissertation advisor. The dissertation proposal must be successfully defended and approved by the dean of The Graduate College before a student can be advanced to candidacy. Information about the dissertation procedures can be found in the Dissertation tab.

Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal form" (available on The Graduate College website) to the dissertation advisor. After obtaining committee members' signatures, the student must submit the dissertation proposal and dissertation proposal form to the program director for signature. The form also requires evidence of the IRB approval for any research involving

human subjects. The program director will then forward the dissertation proposal and form through the department chair to the dean of The Graduate College for final approval. Final approval must be received before proceeding with the defense of the dissertation proposal. The Dissertation Proposal form may be obtained from The Graduate College website.

### Defense of the Dissertation Proposal

Students must defend the dissertation proposal in a meeting that begins with a public presentation and continues with an oral examination by the dissertation committee. The examination will address the proposed dissertation topic (problem definition and scope), relevant literature, and research method. The dissertation committee must sign the "Defense of the Dissertation Proposal form" to indicate approval and then submit the form for the signature of the doctoral program director and the department chair. The approved Defense of the Dissertation Proposal form must be forwarded to the dean of The Graduate College. The dissertation proposal must be approved and the Defense of the Dissertation Proposal form must be on file in The Graduate College before any student can advance to candidacy and begin dissertation research.

### Recommendation for Advancement to Candidacy

The dissertation committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair, and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy the student must have successfully completed the comprehensive exam, completed all course work, and successfully defended the dissertation proposal.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of the *Publication Manual of the American Psychological Association*.

## Dissertation Enrollment Requirements

Any time a student is receiving official guidance on the dissertation, the student must be enrolled in a dissertation course. A student must maintain continuous enrollment in dissertation hours every term from the time they advance to candidacy until the dissertation is defended and approved. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must enroll in a minimum of 12 dissertation credit hours.

## Fee Reduction

A doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students must complete the dissertation within five (5) years of advancement to candidacy. The student's dissertation advisor, with the

student's dissertation committee, will review the student's progress annually.

## Dissertation Advisor and dissertation committee

The dissertation committee must be composed of four approved doctoral graduate faculty members. The doctoral student must select a minimum of four committee members, one of which must be outside the program. The chair of the dissertation committee must be from the program. All committee members must hold at least associate doctoral faculty status, and chairs must hold core doctoral faculty status. To form the dissertation committee, the "Dissertation Committee Request form" must be completed and signed by the student, committee members, committee chair, doctoral program director, and the department chair and then forwarded to the dean of The Graduate College for approval and signature. The required Dissertation Committee Request form may be obtained from The Graduate College website.

### Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation advisor, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty (60) days before the final dissertation defense. The "Dissertation Advisor/Committee Member Change Request form" may be obtained from The Graduate College website.

## Defense of the Dissertation

All dissertations must meet the following requirements as judged by the student's dissertation committee:

1. a systematic investigation of a problem,
2. informed by previous theory and research,
3. that adds to the body of knowledge in the area of investigation, and
4. is presented in a form capable of dissemination to scholars and practitioners.

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. Students must defend the dissertation in a meeting that begins with a public presentation and continues with an oral exam by the dissertation committee. Before scheduling the final oral exam, the student must have received approval of the dissertation advisor. A completed dissertation defense report must be submitted according to the schedule posted by the dean of The Graduate College and no later than ten days before the date of graduation. The student must complete all aspects of the dissertation, including successful defense and submission of the dissertation to The Graduate College, within five (5) years of advancement to candidacy.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation and abstract requires positive votes from the dissertation advisor and from a majority of the dissertation committee members. Once the committee has approved the dissertation, one copy of the dissertation and the signed "Committee Approval form" must be submitted to the dean of The Graduate College for final approval. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation* for specific guidelines.

Doctoral level courses in Developmental Education: CI (p. 702), DE (p. 703), ENG (p. 705), MATH (p. 706), RDG (p. 709)

## Courses Offered Curriculum and Instruction (CI)

### CI 7101. Introduction to the Research Experience.

This course is designed to introduce students to the department and to the ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Students must enroll in the course for three semesters before dissertation

**1 Credit Hour. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

### CI 7302. Research Methods and Measurement in Education.

This course provides a comprehensive introduction to research methods and fundamental measurement issues in education and the behavioral sciences. The course focuses on measurement, research design, and statistical modeling/analysis in non-experimental and experimental research. Concurrent enrollment allowed in CI 7351 and CI 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CI 7303. Educational and Psychological Measurement and Assessment.

Philosophical and empirical foundations of measurement, assessment, testing, and evaluation. Topics include philosophical and mathematical foundations in research; empirical levels and measurement description; test construction; observational rating scales; measurement interpretation; social, legal, and ethical implications; item analysis/refinement for scale performance; reliability and validity evidence; and standardized and placement tests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CI 7310. Teaching in College.

Teaching strategies for teaching/instructional assistants focused on creating syllabi, adapting to diverse student populations, collaborating with colleagues and staff; implementing active learning strategies; fostering assigned reading; assessing learning; and integrating technology. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### CI 7326. Grant Development and Management.

Course focuses on developing competitive grant proposals and understanding grant management resources. Strategies will encompass locating funding sources, evaluating proposals, developing proposals and budgets, and methods of meeting accountability requirements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 7351. Beginning Quantitative Research Design and Analysis.**

This course introduces students to quantitative research design and analysis. Topics include descriptive statistics; sampling techniques; statistical inference, including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Departmental Approval required. Prerequisite or concurrent enrollment in: CI 7302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7352. Beginning Qualitative Design and Analysis.**

This course introduces students to the qualitative paradigm. Topics include distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisite: CI 7302 or can be taken concurrently. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on intermediate quantitative research design and statistical methods of data analysis related to problems in education, psychology, sociology, and biological sciences. The general linear model based univariate and selected multivariate statistical techniques are examined including theory/purpose, logic, practical implications, and interpretation of various analytic techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7354. Intermediate Qualitative Design and Analysis.**

This course focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7355. Mixed Methods in Research and Evaluation.**

This course will cover mixed methods research designs that can be used in the evaluation of educational interventions and programs. Topics include mixed methods research designs; program evaluation models; quantitative and qualitative data analysis and interpretation; reading mixed methods research articles; and writing mixed methods research proposals and evaluation reports. Prerequisite: ED 7351; ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Intended for those versed in current paradigmatic and epistemological states of human inquiry, presenting an opportunity to design a research project and to address the major issues of a research career. Prerequisites: ED 7352, ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7360. Designing Educational Research.**

Students identify problems in developmental education and develop a strategic proposal to apply to these problems. Students, then, create an evaluation plan to assess the implementation of their proposal. Students develop skills in critiquing research reports and in synthesizing research from developmental education. Prerequisite: ED 7353 or ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Department of Curriculum and Instruction. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7386. Directed Research.**

Students will participate in a doctoral faculty member's research team assisting in completing a research study from identifying a researchable topic, reviewing the literature, producing research questions, designing research and methodology, analyzing results, drawing conclusions and implications, and producing a publishable article draft. This course is repeatable once. Prerequisite: Intermediate level research classes and four specialization courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7389A. Topics in Instructional Technology.**

This topic offers an in-depth study of systematic instructional design emphasizing the selection and use of appropriate media for delivering instruction to maximize student learning. Special emphasis in this topic is on the leader's role in influencing the use of technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Developmental Education (DE)****DE 7199. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**DE 7299. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7301. Understanding Developmental Education Learners in a Diverse Society.**

This course identifies the evolution, characteristics, demographics, and needs of developmental education learners. Emphasis is placed on understanding internal factors, including the cognitive, affective, and psychosocial needs of these students, as well as on analyzing external factors, including the social, political and institutional forces that impact developmental learners' educational experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7302. Policy and Politics in Developmental Education.**

This course addresses the policy and politics of planning, funding, implementing, and evaluating Developmental Education programs in postsecondary education. Readings and discussions focus on current and historical issues relevant to addressing the academic needs of educationally disadvantaged students from the perspective of researchers, program directors, policy analysts, and instructors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7303. Teaching and Learning in Developmental Education.**

The course focuses on the institutional development, intellectual development, learner development, and self-development for effective teaching and learning in developmental education. Topics include instructional and learner theories, pedagogies, assessment and evaluation techniques, and best practices for instruction and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7304A. Curriculum Design in Developmental Education.**

This course focuses on principles and processes of curriculum design and implementation in developmental education contexts, including examination of emerging research and issues. The course pedagogy also engages students in independent curriculum research, planning, and problem-solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304B. Theory and Research of Digital Literacies.**

This course focuses on understanding the complex relationships between technology, teaching, and learning in varied developmental education environments. Tools and strategies for planning, integrating, and assessing technology-supported instruction are explored within frameworks linking theory to practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304C. Student Motivation and Self-Regulation.**

This course focuses on research-based theories of student motivation and self-regulation and highlights practical applications of these theories for students in developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304D. Transformative Learning.**

This course introduces students to the core principles of transformative learning. The course is a theory-driven, project-based advanced class designed to enable students to develop theoretical perspectives, engage in intensive practice, and understand the use of transformative learning for applications with postsecondary individuals, groups, and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304E. Current Topics in Motivation Intervention Research.**

In this course, we will analyze, synthesize, discuss, and apply cutting-edge research on various types of motivation interventions in education. Emphasis will be placed on theory, research, and practice in postsecondary educational settings and developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7305. Multicultural Education in a P-16 Context.**

This course uses critical multicultural framework to trace the evolution of the developmental learner in a P-16 educational system. Students in this examine school practices and policies in an attempt to map the educational trajectory and improve the educational experiences of P-16 underrepresented and underserved students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7321. The Community College.**

Introduction to community college and to its roles and functions in American education. Special attention will be directed to evolution, development and patterns of organization, purposes, programs, personnel and current issues of the community college

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7322. Learning Support Centers in Postsecondary Settings.**

The course explores the learning assistance movement in postsecondary settings including its history, leaders, and current research. Topics include program planning; leadership, organization, and management; human and financial resources; facilities and equipment; legal responsibilities; equal opportunity and access; diversity; ethics; campus and community relations; and assessment and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7323. Academic Support for Students with Learning Disabilities.**

The course focuses on Learning Disabilities (LD) and Executive Function (EF) Disorders and their nature, prevalence, and significance in postsecondary environments. Topics include theories about the origins and nature of LD and EF, development across the lifespan, characteristics of individuals, and approaches to service, delivery and teaching

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking skills in the college and adult classroom. Topics will include variables in teaching and learning, methods of assessment, and approaches to instruction. Students who have taken EDP 5371 or DAE 5371 cannot take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7325. Advising Developmental Students.**

The course will focus on theories and techniques of advising and helping skills for developmental students enrolled in postsecondary education. Didactic and experiential activities will provide students enrolled in the course with opportunities to learn and practice skill development in academic advising, helping, and communicating

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7380. Managing Developmental Education Programs.**

In this course, students will learn the theoretical and practical elements of management of developmental education programs in higher education. Readings and discussions focus generally on best practices in higher education leadership and specifically on best practices in leadership and management in developmental education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7381. Practicum.**

Students seeking the Ed.D. degree must complete a one semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7390. Nature of Educational Inquiry.**

Current paradigmatic and epistemological states of human inquiry are discussed presenting an opportunity to examine educational inquiry, create research knowledge related to the current state of the academy, and examine the issues of a research career

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7399. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7599. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7699. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7999. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**English (ENG)****ENG 7300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7314. Specializations in Professional and Technical Communication Topics.**

Provides theoretical and practical information for specialized types of technical and professional communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7316. Foundations in Rhetoric and Composition.**

A course providing students with theoretical, pedagogical, and/or methodological foundations in the field of rhetoric and composition. Emphases vary but may include Contemporary Composition Pedagogy, Basic Writing Theory and Practice, and Writing Assessment. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7317. Specializations in Rhetoric and Composition.**

A course providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Across the Curriculum, Service Learning, Writing Center Theory and Practice, Computers and Writing, Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Mathematics (MATH)****MATH 7111. Seminar in Teaching.**

Seminar on individual study projects concerned with selected problems in the teaching of mathematics. This course does not count for degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 7187. Seminar in Mathematics.**

Students are required to attend weekly research seminars in mathematics and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7188. Seminar in Mathematics Education.**

Students are required to attend weekly research seminars in Mathematics Education and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7199A. Dissertation.**

Original research and writing in Mathematics Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7299A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7301. Studies in Mathematics.**

This course provides basic foundations in Mathematics for students entering the doctoral program in Mathematics Education. This course may be repeated, but the course does not earn graduate degree credit and cannot be used for degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 7302. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7303. Analysis I.**

This course covers foundations of modern analysis. Topics include: sequences,  $\text{LimSup}$ ,  $\text{LimInf}$ , Sigma Algebras of sets that include open and closed sets, sequences of functions, pointwise and uniform convergence, lower and upper semi-continuity, Borel sets, outer measure, and Lebesgue measure. Prerequisite: MATH 4315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7306. Current Research in Math Education.**

This course surveys the various current social, political, and economic trends in local, state, national, and international settings that are related to research in Mathematics Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7307. Algebra I.**

Applications of Algebra and topics in modern algebra, including permutation groups, symmetry groups, Sylow theorems, and select topics from Ring Theory. Prerequisite: MATH 4307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7309. Topology I.**

A course in point-set topology emphasizing topological spaces, continuous functions, connectedness, compactness, countability, separability, metrizability, CW-complexes, simplicial complexes, nerves, and dimension theory. Prerequisite: MATH 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7313. Analysis II.**

This course covers the theory of integration with special emphasis on Lebesgue integrals. Topics include: Lebesgue integral, Bounded Convergence theorem, differentiation and integration, absolute continuity, and  $L_p$  spaces. Prerequisite: Math 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7317. Algebra II.**

A study of the important algebraic structures of rings and fields. Topics covered include rings, ideals, modules, polynomial rings, Euclidean algorithm, finite fields, and field extensions. Topics also include an introduction to Galois Theory with an emphasis on the geometric applications. Prerequisite: MATH 7307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7319. Topology II: Algebraic Topology.**

This course covers the fundamental concepts and tools of algebraic topology. Topics include the fundamental group, covering spaces, homotopy type, the higher homotopy groups, singular homology theory, and the computation of homology groups via exact sequences and applications. Prerequisite: MATH 7307 and MATH 7309

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7321. Graph Theory.**

Topics in this course include trees, connectivity of graphs, Eulerian graphs, Hamiltonian graphs, planar graphs, graph coloring, matchings, factorizations, digraphs, networks, and network flow problems.

Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7324. Curriculum Design & Analysis.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques that are related to curriculum design in Mathematics Education for grade levels P-16

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7325. Statistics 1.**

A study of the mathematical and probabilistic underpinnings of the techniques used in statistical inference. Topics covered include sampling, sampling distributions, confidence intervals, and hypothesis testing with an emphasis on both simulations and derivations.

Prerequisite: Math 2321, Math 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7328. Instructional Techniques & Assessments.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques of instruction in Mathematics Education and the related assessment procedures for each for grade levels P-20

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7331. Combinatorics.**

This course is a study of fundamental principles of combinatorics. Topics include: permutations and combinations, the Pigeonhole principle, the principle of inclusion-exclusion, binomial and multinomial theorems, special counting sequences, partitions, posets, extremal set theory, generating functions, recurrence relations, and the Polya theory of counting. Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7335. Statistics II: Linear Modeling.**

A study of the formulation and statistical methodologies for fitting linear models. Topics include the general linear hypothesis, least-squares estimation, Gauss-Markov theorem, assessment of model fit, effects of departures from assumptions, model design, and criteria for selection of optimal regression models. Prerequisite: MATH 3377 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7346. Quantitative Research Analysis in Mathematics Education.**

This course surveys the various research techniques used in quantitative analysis for mathematics education and covers topics such as experimental design, statistical analysis, and use of appropriate design methodologies to achieve the strongest possible evidence to support or refute a knowledge claim. Prerequisite: MATH 7306 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7356A. Advanced Quantitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in quantitative research. Prerequisite: MATH 7346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356B. Advanced Qualitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in qualitative research. Prerequisite: ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356C. Action Research in Mathematics Education.**

This course examines underlying theory and issues in action research model and the development of action research projects. Prerequisites: MATH 7346 or ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7361. Seminar in Advanced Mathematics.**

Material in course will vary with the interest of students and faculty. A detailed study of subject matter may be chosen from advanced areas of analysis; algebra; topology and geometry; applied mathematics; and probability and statistics. This course is repeatable for credit when subject matter varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7366A. Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors).**

This course examines how to develop and teach post-secondary students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisites: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366B. Teaching K-12 Students (Elementary, Middle School, and High School).**

This course examines how to develop and teach K-12 students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366C. Teaching Teachers (In-Service; Pre-Service).**

This course examines how to prepare teachers of mathematics. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**MATH 7366D. Teaching Specialized Content.**

This course will be an in-depth study of a specialized content area in mathematics with an emphasis on teaching. The specific content area will vary by instructor. Examples include Euclidean Simplex Geometry and Discrete Probability Spaces with Implications for Public School Curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366E. Developmental Mathematics Curriculum.**

This course surveys the research, development, and evaluation of the scope and sequence of developmental mathematics curriculum. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7371A. Advanced Graph Theory.**

Topics in this course include Turan's problems, Ramsey theory, random graph theory, extremal graph theory, algebraic graph theory, domination of graphs, distance problems, and applications. Prerequisite: MATH 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371B. Advanced Combinatorics.**

Topics in this course include Block designs, Latin squares, combinatorial optimization problems, coding theory, matroids, difference sets, and finite geometry. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371C. Combinatorial Number Theory.**

A study of fundamental techniques in combinatorial number theory.

Topics will include Waring's problem, additive number theory, and probabilistic methods in number theory. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371D. Discrete Optimization.**

A study of some fundamental techniques in discrete optimization. Topics include discrete optimization, linear programming, integer programming, integer nonlinear programming, dynamic programming, location problem, scheduling problem, transportation problem, postman problem, traveling salesman problem, matroids, and NP-completeness. Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371E. Algorithms and Complexity.**

A study of some fundamental concepts of computability and complexity.

Topics include polynomially bounded problems, NP-complete problems, exponentially hard problems, undecidable problems, and reducibility.

Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371F. Probabilistic Methods in Discrete Mathematics.**

A study of some fundamental probabilistic techniques used to solve problems in graph theory, combinatorics, combinatorial number theory, combinatorial geometry, and algorithm. Topics include linearity of expectation, alterations, second moment, local lemma, correlation inequalities, martingales, Poisson paradigm, and pseudo-randomness.

Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371G. Applied Discrete Mathematics.**

This course introduces fundamental concepts in logic, Boolean algebra, and binomial coefficients; and applications in different fields such as complexity of algorithms and network theory. Prerequisites: MATH 2472 and MATH 4307 with a grade of "C" or higher, or with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371H. Combinatorial Networks.**

Combinatorial Networks is an area of study of certain types of networks using combinatorial methods extensively. This course introduces fundamental basics as well as the latest development in this area of research. Prerequisite: MATH 5307/7307 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375C. Time Series Analysis.**

A study of the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375D. Advanced linear Modeling.**

The course provides an extension of regression methodology to more general settings where standard assumptions for ordinary least squares are violated. Topics include generalized least squares, robust regression, bootstrap, regression in the presence of autocorrelated errors, generalized linear models, and logistic and Poisson regression.

Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378A. Problem Solving, Reasoning, and Proof.**

A study of the fundamental concepts of problem solving, logic, set theory, and mathematical proof and applications of these concepts in mathematics curriculum for grades P-20. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**MATH 7378B. Connecting and Communicating Math.**

This course examines one of the basic principles involved in mathematics education: Connecting and Communicating Mathematics. This fundamental theme will be reviewed, researched, and discussed.

Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378C. Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration).**

This course examines the basic principles involved in mathematics education. The process of representing fundamental mathematical ideas will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378D. Math Technologies.**

This course examines the basic principles involved in mathematics education: Technology. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378E. Developmental Mathematics Perspectives.**

This course examines developmental mathematics-specific strands including technological course support and placement tools/decisions. Issues related to the first mathematics core course required of undergraduates will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7378F. Research on Mathematical Problem Solving in Secondary Schools.**

In this course a careful study is made of elementary techniques for problem solving in a variety of domains, including algebra, number theory, combinatorics, geometry, and logic puzzles. Students will learn these techniques by actually working on a collection of problems in each of these areas. Students will read and examine research about various aspects of problem solving and research in math education that includes both teacher training and student learning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7385. Independent Study in Mathematics.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of mathematics. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7386. Independent Study in Mathematics Education.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Mathematics Education. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7389. Internship.**

Students will work under the supervision of a faculty member to gain practical knowledge in Mathematics Education. Student experience can come from industry, government agencies, or other sources but must directly apply to furthering knowledge of mathematics education or its application

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7396. Mathematics Education Research Seminar.**

Collaborative research projects with faculty through identifying an educational issue, reviewing literature, creating a research question, designing a methodology, analyzing data, drawing conclusions, implications, and creating a draft of a publishable paper. Prerequisite: MATH 7356, and (ED 7352 or MATH 7346)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7399A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7599A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7699A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7999A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 7301. Theory and Research of Literacy.**

This course examines the current theories and basic research of literacy development from psychological, cultural, linguistic, educational, and epistemological frameworks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7302. Theory and Research of College Basic Literacy.**

This course examines basic literacy needs and instructional strategies for students within post-secondary institutions. Explored are etiologies; comparison of basic to academic literacy; analysis of instructional strategies and materials for developing phonemic awareness, decoding, vocabulary, fluency, and comprehending in single sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7303. Theory and Research of College Academic Literacy.**

This course examines basic literacy needs and instructional strategies for students in college. Explored are etiologies; comparison of academic workplace, and new literacies; instructional strategies and materials for developing vocabulary, comprehending, and critical and strategic reading in multiple sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7304. Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers.**

This course examines the historical and contemporary understandings of language acquisition and instruction; foundational knowledge of literacy research and cultural and linguistic difference; instructional practices and materials including culturally responsive instruction understanding linguistic differences, creating supportive literate environment,, assessment, diagnosis, evaluation; and critical literacy. Prerequisites: RDG 7301, RDG 7302, RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7305. Theory and Research of College Literacy Assessment.**

This course reviews literacy assessment theory, research, policy, and practice in pre-school through grade 20 including accountability, standard-based curriculum, cultural and linguistic effects, assessment driven instruction, reliability and validity, interpretation, and types of instruments: high-staked, placement, diagnostic, classroom tests, and qualitative instruments. Prerequisites: RDG 7301, RDG 7302, RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7306. Literacy Research Seminar.**

Doctoral students participate in weekly research seminar that explore research and policy papers in literacy and literacy education, examine their methodology and conclusions, and consider additional research questions. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7307A. New Literacy Studies.**

This course focuses on the field of New Literacy Studies (NLS). This course will include an examination of diverse ways in which new technologies broaden and change the demands on what it means to be a literate citizen of the 21st century. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307B. Community Literacy.**

Purpose is to explore, understand, refine, and reflect on literacy as social practices within a community which informs effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project. Prerequisite: RDG 7301, RDG 7302 or RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to examine theory, research, and practice of an integrated reading and writing approach to postsecondary literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307E. Theory, Research and Practice of Disciplinary Literature.**

This course examines core principles of disciplinary literacy. Students will examine the theory, research and pedagogical practices of literacy across the disciplines with an emphasis on understanding the potential for post-secondary learners and developmental education practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

## Doctor of Philosophy (Ph.D.), Major in Developmental Education

### Doctoral Program

The Department of Curriculum and Instruction in the College of Education at Texas State offers a Ph.D. in developmental education (DE) that produces researchers, university faculty, and scholars focused on building strong research and theoretical base for DE. The Ph.D. is designed to fill the urgent need for advanced research in an emerging field that serves those who are underprepared for postsecondary education.

### Program Mission Statement

The doctoral program in developmental education within the Department of Curriculum and Instruction prepares future scholars, researchers, leaders, administrators, instructors, and practitioners in the field of developmental education. Both rigorous and supportive, the program aims to advance theory, research, and practice in multiple areas of developmental education — including developmental literacy, learning support, and developmental mathematics — by actively engaging students in teaching, scholarship, and professional service. As a multidisciplinary program, the faculty, staff, and students work collaboratively across various academic disciplines, diverse communities, and geographic boundaries.

### Educational Goal

Major educational objectives for the programs include the following:

- To prepare DE professionals who engage in divergent and critical thinking, are culturally competent, and are skilled in maximizing technology applications for learning and communication;

- To prepare DE professionals who understand and can respond to the nature and needs of students who enroll in DE programs; the complexities of motivation, teaching, learning, and assessment in DE settings; the cultural, political, and social systems that create inequities in educational settings; and the structure and management of DE programs;
- To prepare DE professionals with sophisticated research skills that will enable them to critically evaluate DE programs and practices and implement research agendas that will inform practice and policy;
- To prepare DE professionals who will serve as leaders in the DE profession who can engage in institutional leadership, program administration, and innovative program development and evaluation that will promote systemic change and improvement.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/deved.html>.

## Course Work

### Advising

Advising in the doctoral program in developmental education takes three forms: the initial advisor, the program mentor, and the dissertation advisor. When students are first admitted, they are assigned an initial advisor who mentors them from entry through their first year benchmarks in the program. By the end of the first year, students formally ask a faculty member to be their program mentor who advises them from the end of their first year until their comprehensive exams. At a time no later than the completion of their comprehensive exams, students then select a dissertation advisor who is the chair of their dissertation committee, which must be formed at that time. These advising roles can be assumed by the same faculty member or different faculty members depending on students' research interests and foci.

### Semester Hour Requirements

Course work grounded in developmental education theory and research	12
Research methodology	12
Specialization in developmental education literacy, developmental education mathematics, or learning support	21
Elective choices that reflect significant issues in developmental education and research methodology	9
Dissertation	12
<b>Total Hours</b>	<b>66</b>

Students may transfer a maximum of six semester hours of doctoral-level credit earned at another accredited institution if it bears a letter grade of "B" or higher pending approval by the dean of The Graduate College. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must satisfy the residency requirement of 18 graduate credit hours.

### Course Work Requirements

#### Required Foundation Courses

DE 7301	Understanding Developmental Education Learners in a Diverse Society	3
DE 7302	Policy and Politics in Developmental Education	3

DE 7303	Teaching and Learning in Developmental Education	3
DE 7305	Multicultural Education in a P-16 Context	3

#### Required Research Courses

CI 7101	Introduction to the Research Experience	1
CI 7101	Introduction to the Research Experience	1
CI 7101	Introduction to the Research Experience	1
CI 7351	Beginning Quantitative Research Design and Analysis	3
CI 7352	Beginning Qualitative Design and Analysis	3
CI 7386	Directed Research	3

#### Research Elective

Select three of the following:	9
CI 7353	Intermediate Quantitative Research Design and Analysis
CI 7354	Intermediate Qualitative Design and Analysis
CI 7358	Theoretical and Conceptual Frameworks in Qualitative Research
CI 7359	Seminar in Quantitative Research

#### Specialization Electives

Select five courses from the list below	15
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#### Open Electives

Select two additional courses	6
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#### Dissertation Courses

Take 12 hours from the following:	12
DE 7199	Dissertation
DE 7299	Dissertation
DE 7399	Dissertation
DE 7599	Dissertation
DE 7699	Dissertation
DE 7999	Dissertation

<b>Total Hours</b>	<b>66</b>
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### Specialization Elective Courses

Courses from several College of Education departments are approved as prescribed electives and are listed below. The College of Education and the dean of The Graduate College may approve additional electives. Students should contact the doctoral program director for additional electives.

#### Developmental Literacy

##### Developmental Literacy

RDG 7301	Theory and Research of Literacy	3
RDG 7302	Theory and Research of College Basic Literacy	3
RDG 7303	Theory and Research of College Academic Literacy	3
RDG 7304	Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers	3
RDG 7305	Theory and Research of College Literacy Assessment	3
RDG 7306	Literacy Research Seminar	3
RDG 7307A	New Literacy Studies	3
RDG 7307B	Community Literacy	3
ENG 7300	Language Problems in a Multicultural Environment	3
ENG 7316	Foundations in Rhetoric and Composition	3

ENG 7317	Specializations in Rhetoric and Composition	3
ENG 7326	Contemporary Composition Theory	3
ENG 7383	Studies in Rhetorical Theory	3

### Learning Support

#### Learning Support

DE 7321	The Community College	3
DE 7322	Learning Support Centers in Postsecondary Settings	3
DE 7323	Academic Support for Students with Learning Disabilities	3
DE 7324	Teaching Learning Strategies and Critical Thinking	3
DE 7325	Advising Developmental Students	3
CI 7326	Grant Development and Management	3

### Developmental Mathematics

#### Developmental Mathematics

MATH 7188	Seminar in Mathematics Education	1
MATH 7302	History of Mathematics	3
MATH 7324	Curriculum Design & Analysis	3
MATH 7328	Instructional Techniques & Assessments	3
MATH 7366A	Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors)	3
MATH 7366E	Developmental Mathematics Curriculum	3
MATH 7378A	Problem Solving, Reasoning, and Proof	3
MATH 7378B	Connecting and Communicating Math	3
MATH 7378E	Developmental Mathematics Perspectives	3
MATH 7386	Independent Study in Mathematics Education	3
MATH 7396	Mathematics Education Research Seminar	3

### Open Elective Courses

Courses from several College of Education departments are approved as prescribed electives and are listed below. The College of Education and the dean of The Graduate College may approve additional electives. Students should contact the doctoral program director for additional electives.

### Developmental Literacy

#### Developmental Literacy

CI 7303	Educational and Psychological Measurement and Assessment	3
CI 7326	Grant Development and Management	3
CI 7355	Mixed Methods in Research and Evaluation	3
CI 7360	Designing Educational Research	3
DE 7304A	Curriculum Design in Developmental Education	3
DE 7304B	Theory and Research of Digital Literacies	3
DE 7321	The Community College	3
DE 7322	Learning Support Centers in Postsecondary Settings	3
DE 7323	Academic Support for Students with Learning Disabilities	3
DE 7324	Teaching Learning Strategies and Critical Thinking	3
DE 7325	Advising Developmental Students	3
DE 7380	Managing Developmental Education Programs	3
DE 7390	Nature of Educational Inquiry	3

MATH 7188	Seminar in Mathematics Education	1
MATH 7302	History of Mathematics	3
MATH 7306	Current Research in Math Education	3
MATH 7366A	Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors)	3
MATH 7366E	Developmental Mathematics Curriculum	3
MATH 7378E	Developmental Mathematics Perspectives	3
MATH 7386	Independent Study in Mathematics Education	3
MATH 7396	Mathematics Education Research Seminar	3

### Learning Support

#### Learning Support

CI 7303	Educational and Psychological Measurement and Assessment	3
CI 7355	Mixed Methods in Research and Evaluation	3
CI 7360	Designing Educational Research	3
DE 7304A	Curriculum Design in Developmental Education	3
DE 7304B	Theory and Research of Digital Literacies	3
DE 7380	Managing Developmental Education Programs	3
DE 7390	Nature of Educational Inquiry	3
ENG 7300	Language Problems in a Multicultural Environment	3
ENG 7316	Foundations in Rhetoric and Composition	3
ENG 7317	Specializations in Rhetoric and Composition	3
ENG 7326	Contemporary Composition Theory	3
ENG 7383	Studies in Rhetorical Theory	3
RDG 7306	Literacy Research Seminar	3
MATH 7188	Seminar in Mathematics Education	1
MATH 7302	History of Mathematics	3
MATH 7306	Current Research in Math Education	3
MATH 7366A	Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors)	3
MATH 7366E	Developmental Mathematics Curriculum	3
MATH 7378E	Developmental Mathematics Perspectives	3
MATH 7386	Independent Study in Mathematics Education	3
MATH 7396	Mathematics Education Research Seminar	3
RDG 7301	Theory and Research of Literacy	3
RDG 7302	Theory and Research of College Basic Literacy	3
RDG 7303	Theory and Research of College Academic Literacy	3
RDG 7304	Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers	3
RDG 7305	Theory and Research of College Literacy Assessment	3
RDG 7307A	New Literacy Studies	3
RDG 7307B	Community Literacy	3

### Developmental Mathematics

#### Developmental Mathematics

CI 7303	Educational and Psychological Measurement and Assessment	3
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CI 7355	Mixed Methods in Research and Evaluation	3
CI 7360	Designing Educational Research	3



DE 7304A	Curriculum Design in Developmental Education	3
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DE 7390	Nature of Educational Inquiry	3
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ENG 7326	Contemporary Composition Theory	3
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RDG 7306	Literacy Research Seminar	3
RDG 7307A	New Literacy Studies	3
RDG 7307B	Community Literacy	3

## Program Plan

In their first term, students will construct a program plan with the assistance of their initial advisor. The program plan is a focused, detailed description of the doctoral student's proposed course work, specialization, and goals for the doctoral program. The program plan will be submitted to the doctoral program plan committee for approval and suggestions. The program plan must include the following:

- goal statement that includes doctoral study goals (including specialization) and future professional goals
- professional curriculum vitae
- course work plan. This is the appropriate place for petitioning for course transfer for graduate work done previously (there is a 5-year time limit on any course work counting toward candidacy).

The student should work with their advisor for direction while completing the program plan prior to submitting it to the program plan committee. It is due to the program plan committee by November 15 in the fall term of the student's first year of study. After the program plan committee reviews the student's program plan, a meeting may be scheduled with the student for further review of the plan.

## Advancement to Candidacy

### Application for Advancement to Candidacy

Once all course work (except for dissertation course work) has been completed, the comprehensive exams have been passed, and the dissertation proposal has been successfully defended, doctoral students will apply for advancement to candidacy. Candidacy must be achieved within five (5) years of initiating program course work. No credit will be applied toward the doctoral degree for course work completed more

than five (5) years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions. Requests for a time extension must be made to the program, which in turn submits a recommendation to The Graduate College. Achieving doctoral candidacy allows the student to begin doctoral dissertation research. Candidacy forms are found here: [http://www.gradcollege.txstate.edu/Fac\\_Resources/Forms.html](http://www.gradcollege.txstate.edu/Fac_Resources/Forms.html).

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below a "B" on any graduate course may apply toward a doctorate at Texas State. Incomplete grades must be cleared through The Graduate College before a student can be approved for advancement to candidacy.

### Comprehensive Exams

In the doctoral program in developmental education, the comprehensive exam is designed both to prepare students for the dissertation stage as well as demonstrate their readiness for dissertation research, and is achieved through a process that reflects the kinds of tasks that are a part of the vast majority of dissertations.

There are TWO options for your comprehensive exams. Students and their program mentors will discuss each and decide which option better aligns with the student's background, program goals, and dissertation goals. This information will be considered by the program plan committee as well.

Neither option is "greater" or "lesser" than the other, and both options are designed to cover the same processes and achieve the same control over salient aspects of empirical research. The main difference is that the Two-project Option has a more scaffolded and formal literature review, while the One-project Option includes data collection and analysis.

### Overview of Comprehensive Exam Options

With advisor and program plan committee's assistance, the student chooses which comprehensive exam option to undertake:

#### Two-project Option of Comprehensive Exams

In the Two-project Option, students will undertake two parts to the comprehensive exam. Part I is the Control of Literature and Part II is the Control of Research. Part I, Control of Literature, is a structured, critical review of literature in the field. Part II, Control of Research, is an exhaustive proposal for an empirical research study. Part I must be completed before Part II and students must successfully complete both Part I and Part II in order to be admitted to candidacy.

#### One-project Option of Comprehensive Exams

In the One-project Option of Comprehensive Exams, students complete all aspects of a small-scale empirical research study – the Pilot Research Project – including research design, literature support, original data collection and analysis, and producing a written manuscript of publishable quality. Students must pass both the written portion (the manuscript) and the oral portion (the committee defense) of the project in order to be admitted to candidacy.

### Dissertation Proposal

At a time no later than the completion of their comprehensive exams, students must select a dissertation advisor. After selecting their dissertation advisor, and before beginning their dissertation proposal, students will form a dissertation committee that will provide technical



support for the inception, conduct, and completion of the dissertation research study and evaluate the final product. The student will undertake the research and write the dissertation under the guidance of their dissertation advisor. The dissertation proposal must be successfully defended and approved by the dean of The Graduate College before a student can be advanced to candidacy. Information about the dissertation procedures can be found in the Dissertation tab.

Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal form" (available on The Graduate College website) to the dissertation advisor. After obtaining committee members' signatures, the student must submit the dissertation proposal and dissertation proposal form to the program director for signature. The form also requires evidence of the IRB approval for any research involving human subjects. The program director will then forward the dissertation proposal and form through the department chair to the dean of The Graduate College for final approval. Final approval must be received before proceeding with the defense of the dissertation proposal. The Dissertation Proposal form may be obtained from The Graduate College website.

### **Defense of the Dissertation Proposal**

Students must defend the dissertation proposal in a meeting that begins with a public presentation and continues with an oral examination by the dissertation committee. The examination will address the proposed dissertation topic (problem definition and scope), relevant literature, and research method. The dissertation committee must sign the "Defense of the Dissertation Proposal form" to indicate approval and then submit the form for the signature of the doctoral program director and the department chair. The approved Defense of the Dissertation Proposal form must be forwarded to the dean of The Graduate College. The dissertation proposal must be approved and the Defense of the Dissertation Proposal form must be on file in the office of The Graduate College before any student can advance to candidacy and begin dissertation research.

### **Recommendation for Advancement to Candidacy**

The dissertation committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair, and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy the student must have successfully completed the comprehensive exam, completed all course work, and successfully defended the dissertation proposal.

## **Dissertation Research and Writing**

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of the *Publication Manual of the American Psychological Association*.

## **Dissertation Enrollment Requirements**

Any time a student is receiving official guidance on the dissertation, the student must be enrolled in a dissertation course. A student must maintain continuous enrollment in dissertation hours every term from the time they advance to candidacy until the dissertation is defended and approved. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates

for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must enroll in a minimum of 12 dissertation credit hours.

## **Fee Reduction**

A doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## **Dissertation Time Limit**

Students must complete the dissertation within five (5) years of advancement to candidacy. The student's dissertation advisor, with the student's dissertation committee, will review the student's progress annually.

## **Dissertation Advisor and Dissertation Committee**

The dissertation committee must be composed of four approved doctoral graduate faculty members. The doctoral student must select a minimum of four committee members, one of which must be outside the program. The chair of the dissertation committee must be from the program. All committee members must hold at least associate doctoral faculty status, and chairs must hold core doctoral faculty status. To form the dissertation committee, the "Dissertation Committee Request form" must be completed and signed by the student, committee members, committee chair, doctoral program director, and the department chair and then forwarded to the dean of The Graduate College for approval and signature. The required Dissertation Committee Request form may be obtained from The Graduate College website.

### **Committee Changes**

Any changes to the dissertation committee must be submitted for approval to the dissertation advisor, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty (60) days before the final dissertation defense. The "Dissertation Advisor/Committee Member Change Request form" may be obtained from The Graduate College website.

## **Defense of the Dissertation**

All dissertations must meet the following requirements as judged by the student's dissertation committee:

1. a systematic investigation of a problem,
2. informed by previous theory and research,
3. that adds to the body of knowledge in the area of investigation, and
4. is presented in a form capable of dissemination to scholars and practitioners.

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. Students must defend the dissertation in a meeting that begins with a public presentation and continues with an oral exam by the dissertation committee. Before scheduling the final oral exam, the student must have received approval of the dissertation advisor. A completed "Dissertation Defense Report form" must be submitted according to the schedule posted by the dean of The Graduate College and no later than ten days before the date of graduation. The student must complete all aspects of the dissertation, including successful defense and submission

of the dissertation to The Graduate College, within five (5) years of advancement to candidacy.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation requires positive votes from the dissertation advisor and from a majority of the dissertation committee members. Once the committee has approved the dissertation, one copy of the dissertation and the signed "Committee Approval form" must be submitted to the dean of The Graduate College for final approval. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation* for specific guidelines.

Doctoral level courses in Developmental Education: CI (p. 715), DE (p. 716), ENG (p. 718), MATH (p. 718), RDG (p. 722)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 7101. Introduction to the Research Experience.

This course is designed to introduce students to the department and to the ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Students must enroll in the course for three semesters before dissertation

**1 Credit Hour. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### CI 7302. Research Methods and Measurement in Education.

This course provides a comprehensive introduction to research methods and fundamental measurement issues in education and the behavioral sciences. The course focuses on measurement, research design, and statistical modeling/analysis in non-experimental and experimental research. Concurrent enrollment allowed in CI 7351 and CI 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 7303. Educational and Psychological Measurement and Assessment.

Philosophical and empirical foundations of measurement, assessment, testing, and evaluation. Topics include philosophical and mathematical foundations in research; empirical levels and measurement description; test construction; observational rating scales; measurement interpretation; social, legal, and ethical implications; item analysis/refinement for scale performance; reliability and validity evidence; and standardized and placement tests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 7310. Teaching in College.

Teaching strategies for teaching/instructional assistants focused on creating syllabi, adapting to diverse student populations, collaborating with colleagues and staff; implementing active learning strategies; fostering assigned reading; assessing learning; and integrating technology. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CI 7326. Grant Development and Management.

Course focuses on developing competitive grant proposals and understanding grant management resources. Strategies will encompass locating funding sources, evaluating proposals, developing proposals and budgets, and methods of meeting accountability requirements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 7351. Beginning Quantitative Research Design and Analysis.

This course introduces students to quantitative research design and analysis. Topics include descriptive statistics; sampling techniques; statistical inference, including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Departmental Approval required. Prerequisite or concurrent enrollment in: CI 7302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### CI 7352. Beginning Qualitative Design and Analysis.

This course introduces students to the qualitative paradigm. Topics include distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisite: CI 7302 or can be taken concurrently. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### CI 7353. Intermediate Quantitative Research Design and Analysis.

This course focuses on intermediate quantitative research design and statistical methods of data analysis related to problems in education, psychology, sociology, and biological sciences. The general linear model based univariate and selected multivariate statistical techniques are examined including theory/purpose, logic, practical implications, and interpretation of various analytic techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### CI 7354. Intermediate Qualitative Design and Analysis.

This course focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### CI 7355. Mixed Methods in Research and Evaluation.

This course will cover mixed methods research designs that can be used in the evaluation of educational interventions and programs. Topics include mixed methods research designs; program evaluation models; quantitative and qualitative data analysis and interpretation; reading mixed methods research articles; and writing mixed methods research proposals and evaluation reports. Prerequisite: ED 7351; ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Intended for those versed in current paradigmatic and epistemological states of human inquiry, presenting an opportunity to design a research project and to address the major issues of a research career.

Prerequisites: ED 7352, ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7360. Designing Educational Research.**

Students identify problems in developmental education and develop a strategic proposal to apply to these problems. Students, then, create an evaluation plan to assess the implementation of their proposal. Students develop skills in critiquing research reports and in synthesizing research from developmental education. Prerequisite: ED 7353 or ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Department of Curriculum and Instruction. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7386. Directed Research.**

Students will participate in a doctoral faculty member's research team assisting in completing a research study from identifying a researchable topic, reviewing the literature, producing research questions, designing research and methodology, analyzing results, drawing conclusions and implications, and producing a publishable article draft. This course is repeatable once. Prerequisite: Intermediate level research classes and four specialization courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7389A. Topics in Instructional Technology.**

This topic offers an in-depth study of systematic instructional design emphasizing the selection and use of appropriate media for delivering instruction to maximize student learning. Special emphasis in this topic is on the leader's role in influencing the use of technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**Developmental Education (DE)****DE 7199. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled.

Prerequisite: Admitted to doctoral candidacy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7299. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled.

Prerequisite: Admitted to doctoral candidacy

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7301. Understanding Developmental Education Learners in a Diverse Society.**

This course identifies the evolution, characteristics, demographics, and needs of developmental education learners. Emphasis is placed on understanding internal factors, including the cognitive, affective, and psychosocial needs of these students, as well as on analyzing external factors, including the social, political and institutional forces that impact developmental learners' educational experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7302. Policy and Politics in Developmental Education.**

This course addresses the policy and politics of planning, funding, implementing, and evaluating Developmental Education programs in postsecondary education. Readings and discussions focus on current and historical issues relevant to addressing the academic needs of educationally disadvantaged students from the perspective of researchers, program directors, policy analysts, and instructors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7303. Teaching and Learning in Developmental Education.**

The course focuses on the institutional development, intellectual development, learner development, and self-development for effective teaching and learning in developmental education. Topics include instructional and learner theories, pedagogies, assessment and evaluation techniques, and best practices for instruction and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7304A. Curriculum Design in Developmental Education.**

This course focuses on principles and processes of curriculum design and implementation in developmental education contexts, including examination of emerging research and issues. The course pedagogy also engages students in independent curriculum research, planning, and problem-solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304B. Theory and Research of Digital Literacies.**

This course focuses on understanding the complex relationships between technology, teaching, and learning in varied developmental education environments. Tools and strategies for planning, integrating, and assessing technology-supported instruction are explored within frameworks linking theory to practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304C. Student Motivation and Self-Regulation.**

This course focuses on research-based theories of student motivation and self-regulation and highlights practical applications of these theories for students in developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304D. Transformative Learning.**

This course introduces students to the core principles of transformative learning. The course is a theory-driven, project-based advanced class designed to enable students to develop theoretical perspectives, engage in intensive practice, and understand the use of transformative learning for applications with postsecondary individuals, groups, and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304E. Current Topics in Motivation Intervention Research.**

In this course, we will analyze, synthesize, discuss, and apply cutting-edge research on various types of motivation interventions in education. Emphasis will be placed on theory, research, and practice in postsecondary educational settings and developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7305. Multicultural Education in a P-16 Context.**

This course uses critical multicultural framework to trace the evolution of the developmental learner in a P-16 educational system. Students in this examine school practices and policies in an attempt to map the educational trajectory and improve the educational experiences of P-16 underrepresented and underserved students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7321. The Community College.**

Introduction to community college and to its roles and functions in American education. Special attention will be directed to evolution, development and patterns of organization, purposes, programs, personnel and current issues of the community college

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7322. Learning Support Centers in Postsecondary Settings.**

The course explores the learning assistance movement in postsecondary settings including its history, leaders, and current research. Topics include program planning; leadership, organization, and management; human and financial resources; facilities and equipment; legal responsibilities; equal opportunity and access; diversity; ethics; campus and community relations; and assessment and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7323. Academic Support for Students with Learning Disabilities.**

The course focuses on Learning Disabilities (LD) and Executive Function (EF) Disorders and their nature, prevalence, and significance in postsecondary environments. Topics include theories about the origins and nature of LD and EF, development across the lifespan, characteristics of individuals, and approaches to service, delivery and teaching

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking skills in the college and adult classroom. Topics will include variables in teaching and learning, methods of assessment, and approaches to instruction. Students who have taken EDP 5371 or DAE 5371 cannot take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7325. Advising Developmental Students.**

The course will focus on theories and techniques of advising and helping skills for developmental students enrolled in postsecondary education. Didactic and experiential activities will provide students enrolled in the course with opportunities to learn and practice skill development in academic advising, helping, and communicating

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7380. Managing Developmental Education Programs.**

In this course, students will learn the theoretical and practical elements of management of developmental education programs in higher education. Readings and discussions focus generally on best practices in higher education leadership and specifically on best practices in leadership and management in developmental education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7381. Practicum.**

Students seeking the Ed.D. degree must complete a one semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7390. Nature of Educational Inquiry.**

Current paradigmatic and epistemological states of human inquiry are discussed presenting an opportunity to examine educational inquiry, create research knowledge related to the current state of the academy, and examine the issues of a research career

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**DE 7399. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7599. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7699. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7999. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**English (ENG)****ENG 7300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7314. Specializations in Professional and Technical Communication Topics.**

Provides theoretical and practical information for specialized types of technical and professional communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7316. Foundations in Rhetoric and Composition.**

A course providing students with theoretical, pedagogical, and/or methodological foundations in the field of rhetoric and composition.

Emphases vary but may include Contemporary Composition Pedagogy, Basic Writing Theory and Practice, and Writing Assessment. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7317. Specializations in Rhetoric and Composition.**

A course providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Across the Curriculum, Service Learning, Writing Center Theory and Practice, Computers and Writing, Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Mathematics (MATH)****MATH 7111. Seminar in Teaching.**

Seminar on individual study projects concerned with selected problems in the teaching of mathematics. This course does not count for degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 7187. Seminar in Mathematics.**

Students are required to attend weekly research seminars in mathematics and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7188. Seminar in Mathematics Education.**

Students are required to attend weekly research seminars in Mathematics Education and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7199A. Dissertation.**

Original research and writing in Mathematics Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**MATH 7299A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7301. Studies in Mathematics.**

This course provides basic foundations in Mathematics for students entering the doctoral program in Mathematics Education. This course may be repeated, but the course does not earn graduate degree credit and cannot be used for degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 7302. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7303. Analysis I.**

This course covers foundations of modern analysis. Topics include: sequences,  $\text{LimSup}$ ,  $\text{LimInf}$ , Sigma Algebras of sets that include open and closed sets, sequences of functions, pointwise and uniform convergence, lower and upper semi-continuity, Borel sets, outer measure, and Lebesgue measure. Prerequisite: MATH 4315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7306. Current Research in Math Education.**

This course surveys the various current social, political, and economic trends in local, state, national, and international settings that are related to research in Mathematics Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7307. Algebra I.**

Applications of Algebra and topics in modern algebra, including permutation groups, symmetry groups, Sylow theorems, and select topics from Ring Theory. Prerequisite: MATH 4307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7309. Topology I.**

A course in point-set topology emphasizing topological spaces, continuous functions, connectedness, compactness, countability, separability, metrizability, CW-complexes, simplicial complexes, nerves, and dimension theory. Prerequisite: MATH 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7313. Analysis II.**

This course covers the theory of integration with special emphasis on Lebesgue integrals. Topics include: Lebesgue integral, Bounded Convergence theorem, differentiation and integration, absolute continuity, and  $L_p$  spaces. Prerequisite: Math 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7317. Algebra II.**

A study of the important algebraic structures of rings and fields. Topics covered include rings, ideals, modules, polynomial rings, Euclidean algorithm, finite fields, and field extensions. Topics also include an introduction to Galois Theory with an emphasis on the geometric applications. Prerequisite: MATH 7307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7319. Topology II: Algebraic Topology.**

This course covers the fundamental concepts and tools of algebraic topology. Topics include the fundamental group, covering spaces, homotopy type, the higher homotopy groups, singular homology theory, and the computation of homology groups via exact sequences and applications. Prerequisite: MATH 7307 and MATH 7309

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7321. Graph Theory.**

Topics in this course include trees, connectivity of graphs, Eulerian graphs, Hamiltonian graphs, planar graphs, graph coloring, matchings, factorizations, digraphs, networks, and network flow problems.

Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7324. Curriculum Design & Analysis.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques that are related to curriculum design in Mathematics Education for grade levels P-16

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7325. Statistics 1.**

A study of the mathematical and probabilistic underpinnings of the techniques used in statistical inference. Topics covered include sampling, sampling distributions, confidence intervals, and hypothesis testing with an emphasis on both simulations and derivations.

Prerequisite: Math 2321, Math 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7328. Instructional Techniques & Assessments.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques of instruction in Mathematics Education and the related assessment procedures for each for grade levels P-20

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7331. Combinatorics.**

This course is a study of fundamental principles of combinatorics. Topics include: permutations and combinations, the Pigeonhole principle, the principle of inclusion-exclusion, binomial and multinomial theorems, special counting sequences, partitions, posets, extremal set theory, generating functions, recurrence relations, and the Polya theory of counting. Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7335. Statistics II: Linear Modeling.**

A study of the formulation and statistical methodologies for fitting linear models. Topics include the general linear hypothesis, least-squares estimation, Gauss-Markov theorem, assessment of model fit, effects of departures from assumptions, model design, and criteria for selection of optimal regression models. Prerequisite: MATH 3377 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7346. Quantitative Research Analysis in Mathematics Education.**

This course surveys the various research techniques used in quantitative analysis for mathematics education and covers topics such as experimental design, statistical analysis, and use of appropriate design methodologies to achieve the strongest possible evidence to support or refute a knowledge claim. Prerequisite: MATH 7306 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7356A. Advanced Quantitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in quantitative research. Prerequisite: MATH 7346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356B. Advanced Qualitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in qualitative research. Prerequisite: ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356C. Action Research in Mathematics Education.**

This course examines underlying theory and issues in action research model and the development of action research projects. Prerequisites: MATH 7346 or ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7361. Seminar in Advanced Mathematics.**

Material in course will vary with the interest of students and faculty. A detailed study of subject matter may be chosen from advanced areas of analysis; algebra; topology and geometry; applied mathematics; and probability and statistics. This course is repeatable for credit when subject matter varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7366A. Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors).**

This course examines how to develop and teach post-secondary students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisites: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366B. Teaching K-12 Students (Elementary, Middle School, and High School).**

This course examines how to develop and teach K-12 students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366C. Teaching Teachers (In-Service; Pre-Service).**

This course examines how to prepare teachers of mathematics. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366D. Teaching Specialized Content.**

This course will be an in-depth study of a specialized content area in mathematics with an emphasis on teaching. The specific content area will vary by instructor. Examples include Euclidean Simplex Geometry and Discrete Probability Spaces with Implications for Public School Curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366E. Developmental Mathematics Curriculum.**

This course surveys the research, development, and evaluation of the scope and sequence of developmental mathematics curriculum. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7371A. Advanced Graph Theory.**

Topics in this course include Turan's problems, Ramsey theory, random graph theory, extremal graph theory, algebraic graph theory, domination of graphs, distance problems, and applications. Prerequisite: MATH 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371B. Advanced Combinatorics.**

Topics in this course include Block designs, Latin squares, combinatorial optimization problems, coding theory, matroids, difference sets, and finite geometry. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371C. Combinatorial Number Theory.**

A study of fundamental techniques in combinatorial number theory.

Topics will include Waring's problem, additive number theory, and probabilistic methods in number theory. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371D. Discrete Optimization.**

A study of some fundamental techniques in discrete optimization. Topics include discrete optimization, linear programming, integer programming, integer nonlinear programming, dynamic programming, location problem, scheduling problem, transportation problem, postman problem, traveling salesman problem, matroids, and NP-completeness. Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371E. Algorithms and Complexity.**

A study of some fundamental concepts of computability and complexity. Topics include polynomially bounded problems, NP-complete problems, exponentially hard problems, undecidable problems, and reducibility. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371F. Probabilistic Methods in Discrete Mathematics.**

A study of some fundamental probabilistic techniques used to solve problems in graph theory, combinatorics, combinatorial number theory, combinatorial geometry, and algorithm. Topics include linearity of expectation, alterations, second moment, local lemma, correlation inequalities, martingales, Poisson paradigm, and pseudo-randomness. Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371G. Applied Discrete Mathematics.**

This course introduces fundamental concepts in logic, Boolean algebra, and binomial coefficients; and applications in different fields such as complexity of algorithms and network theory. Prerequisites: MATH 2472 and MATH 4307 with a grade of "C" or higher, or with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371H. Combinatorial Networks.**

Combinatorial Networks is an area of study of certain types of networks using combinatorial methods extensively. This course introduces fundamental basics as well as the latest development in this area of research. Prerequisite: MATH 5307/7307 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375C. Time Series Analysis.**

A study of the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375D. Advanced linear Modeling.**

The course provides an extension of regression methodology to more general settings where standard assumptions for ordinary least squares are violated. Topics include generalized least squares, robust regression, bootstrap, regression in the presence of autocorrelated errors, generalized linear models, and logistic and Poisson regression. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378A. Problem Solving, Reasoning, and Proof.**

A study of the fundamental concepts of problem solving, logic, set theory, and mathematical proof and applications of these concepts in mathematics curriculum for grades P-20. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378B. Connecting and Communicating Math.**

This course examines one of the basic principles involved in mathematics education: Connecting and Communicating Mathematics. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378C. Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration).**

This course examines the basic principles involved in mathematics education. The process of representing fundamental mathematical ideas will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378D. Math Technologies.**

This course examines the basic principles involved in mathematics education: Technology. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378E. Developmental Mathematics Perspectives.**

This course examines developmental mathematics-specific strands including technological course support and placement tools/decisions. Issues related to the first mathematics core course required of undergraduates will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7378F. Research on Mathematical Problem Solving in Secondary Schools.**

In this course a careful study is made of elementary techniques for problem solving in a variety of domains, including algebra, number theory, combinatorics, geometry, and logic puzzles. Students will learn these techniques by actually working on a collection of problems in each of these areas. Students will read and examine research about various aspects of problem solving and research in math education that includes both teacher training and student learning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7385. Independent Study in Mathematics.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of mathematics. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7386. Independent Study in Mathematics Education.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Mathematics Education. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7389. Internship.**

Students will work under the supervision of a faculty member to gain practical knowledge in Mathematics Education. Student experience can come from industry, government agencies, or other sources but must directly apply to furthering knowledge of mathematics education or its application

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7396. Mathematics Education Research Seminar.**

Collaborative research projects with faculty through identifying an educational issue, reviewing literature, creating a research question, designing a methodology, analyzing data, drawing conclusions, implications, and creating a draft of a publishable paper. Prerequisite: MATH 7356, and (ED 7352 or MATH 7346)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7399A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7599A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7699A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7999A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 7301. Theory and Research of Literacy.**

This course examines the current theories and basic research of literacy development from psychological, cultural, linguistic, educational, and epistemological frameworks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7302. Theory and Research of College Basic Literacy.**

This course examines basic literacy needs and instructional strategies for students within post-secondary institutions. Explored are etiologies; comparison of basic to academic literacy; analysis of instructional strategies and materials for developing phonemic awareness, decoding, vocabulary, fluency, and comprehending in single sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7303. Theory and Research of College Academic Literacy.**

This course examines basic literacy needs and instructional strategies for students in college. Explored are etiologies; comparison of academic workplace, and new literacies; instructional strategies and materials for developing vocabulary, comprehending, and critical and strategic reading in multiple sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7304. Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers.**

This course examines the historical and contemporary understandings of language acquisition and instruction; foundational knowledge of literacy research and cultural and linguistic difference; instructional practices and materials including culturally responsive instruction understanding linguistic differences, creating supportive literate environment, assessment, diagnosis, evaluation; and critical literacy. Prerequisites: RDG 7301, RDG 7302, RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**RDG 7305. Theory and Research of College Literacy Assessment.**

This course reviews literacy assessment theory, research, policy, and practice in pre-school through grade 20 including accountability, standard-based curriculum, cultural and linguistic effects, assessment driven instruction, reliability and validity, interpretation, and types of instruments: high-staked, placement, diagnostic, classroom tests, and qualitative instruments. Prerequisites: RDG 7301, RDG 7302, RDG 7303  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7306. Literacy Research Seminar.**

Doctoral students participate in weekly research seminar that explore research and policy papers in literacy and literacy education, examine their methodology and conclusions, and consider additional research questions. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7307A. New Literacy Studies.**

This course focuses on the field of New Literacy Studies (NLS). This course will include an examination of diverse ways in which new technologies broaden and change the demands on what it means to be a literate citizen of the 21st century. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 7307B. Community Literacy.**

Purpose is to explore, understand, refine, and reflect on literacy as social practices within a community which informs effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project. Prerequisite: RDG 7301, RDG 7302 or RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 7307C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to examine theory, research, and practice of an integrated reading and writing approach to postsecondary literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 7307E. Theory, Research and Practice of Disciplinary Literature.**

This course examines core principles of disciplinary literacy. Students will examine the theory, research and pedagogical practices of literacy across the disciplines with an emphasis on understanding the potential for post-secondary learners and developmental education practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Master of Arts (M.A.), Major in Developmental Education

### Major Program

The master of arts (M.A.) degree in developmental education (DE) focuses on facilitating learner success in postsecondary programs. Students select a specialization and either the thesis or non-thesis

option. A 15-hour minor in DE is also available for majors in other fields who hope to pursue careers in community colleges and other postsecondary settings.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/deve.html>.

## Course Work Requirements

### Non-thesis Option

#### DE Core Course Work

DE 5375	Learners in Developmental Education Contexts	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education	3
EDTC 5310	Introduction to Educational Technology	3
DE 5339	Assessment and Evaluation in Developmental Education	3

#### Electives

Choose 6 hours of advisor-approved elective courses	6
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#### Concentration Course Work

Choose 5 classes from the appropriate concentration (listed below)	15
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Total Hours	36
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### Thesis Option

#### DE Core Course Work

DE 5375	Learners in Developmental Education Contexts	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education	3
ED 7351	Beginning Quantitative Research Design and Analysis	3
or ED 7352	Beginning Qualitative Design and Analysis	

#### Electives

Choose one advisor-approved elective course	3
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#### Concentration Course Work

Choose 5 classes from the appropriate concentration (listed below)	15
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#### Thesis Course Work

Choose a minimum 6 hours	6
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DE 5199B	Thesis	
DE 5299B	Thesis	
DE 5399A	Thesis	
DE 5399B	Thesis	
DE 5599B	Thesis	
DE 5999B	Thesis	

Total Hours	36
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### Concentration Course Work

#### Generalist Electives

DE 5321	The Community College	3
DE 5324	Teaching Learning Strategies and Critical Thinking	3
DE 5365	Administration of Developmental Education	3
DE 5378	Problems in Developmental Education	3
DE 5379	Independent Study	3



DE 5384	Internship in Developmental Education	3
DE 7321	The Community College	3
DE 7323	Academic Support for Students with Learning Disabilities	3
DE 7324	Teaching Learning Strategies and Critical Thinking	3
DE 7325	Advising Developmental Students	3
RDG 5320	Foundations of Literacy Instruction	3
RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	3
RDG 5334	Family Literacy	3
RDG 5335	Basic Academic Literacy	3
RDG 5345	Assessment-Driven Literacy Instruction	3
RDG 5395	Teaching Academic Literacy to Adults	3
ENG 5300	Language Problems in a Multicultural Environment	3
ENG 5310	Studies in English Language and Linguistics	3
ENG 5316	Foundations in Rhetoric and Composition	3
ENG 5317	Specializations in Rhetoric and Composition	3
ENG 5383	Studies in Rhetorical Theory	3
MATH 5303	History of Mathematics	3
MATH 5304	Topics in Mathematics for the Secondary Teacher	3
MATH 5381	Foundations of Set Theory	3
MATH 5382	Foundation of Real Analysis	3
MATH 5384	Geometric Approach to Abstract Algebra	3
MATH 5386	Knots and Surfaces, An Introduction to Low-Dimensional Topology	3
MATH 5388	Discrete Mathematics	3
MATH 5390	Statistics	3
MATH 5392	Survey of Geometries	3

### Developmental Mathematics Electives

MATH 5303	History of Mathematics	3
MATH 5304	Topics in Mathematics for the Secondary Teacher	3
MATH 5381	Foundations of Set Theory	3
MATH 5382	Foundation of Real Analysis	3
MATH 5384	Geometric Approach to Abstract Algebra	3
MATH 5386	Knots and Surfaces, An Introduction to Low-Dimensional Topology	3
MATH 5388	Discrete Mathematics	3
MATH 5390	Statistics	3
MATH 5392	Survey of Geometries	3

### Learning Support Electives

DE 5321	The Community College	3
DE 5324	Teaching Learning Strategies and Critical Thinking	3
DE 5365	Administration of Developmental Education	3
DE 5378	Problems in Developmental Education	3
DE 5379	Independent Study	3
DE 5384	Internship in Developmental Education	3
DE 7321	The Community College	3
DE 7323	Academic Support for Students with Learning Disabilities	3
DE 7324	Teaching Learning Strategies and Critical Thinking	3
DE 7325	Advising Developmental Students	3

CI 7326	Grant Development and Management	3
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### Literacy Electives

RDG 5320	Foundations of Literacy Instruction	3
RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	3
RDG 5334	Family Literacy	3
RDG 5335	Basic Academic Literacy	3
RDG 5345	Assessment-Driven Literacy Instruction	3
RDG 5395	Teaching Academic Literacy to Adults	3
RDG 7301	Theory and Research of Literacy	3
RDG 7302	Theory and Research of College Basic Literacy	3
ENG 5300	Language Problems in a Multicultural Environment	3
ENG 5310	Studies in English Language and Linguistics	3
ENG 5316	Foundations in Rhetoric and Composition	3
ENG 5317	Specializations in Rhetoric and Composition	3
ENG 5383	Studies in Rhetorical Theory	3

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Curriculum and Instruction: CI (p. 725), DE (p. 729), ECE (p. 730), EDTC (p. 730), RDG (p. 731), SPED (p. 733)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CI 5306. Evaluative Techniques for the Classroom Teacher.**

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5307. Probability and Statistics Methods for Elementary Math Teachers.**

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5308. Introduction to Gifted/Talented Education.**

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit  
**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Arts (M.A.), Major in Elementary Education

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/elem.html>.

## Course Work Requirements

### Thesis Option with 12-hour Minor

#### Education Course Work

CI 5390	Research Seminar in Education	3
CI 5309	Talent Development	3
CI 5327	Principles and Practices in the Elementary School	3

#### Strategies

CI 5310	Creativity: Theories, Research, and Applications	3
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#### Elementary Math/Science

Choose 3 hours

CI 5303	Teaching Math in the Elementary School	
CI 5304	Science, Technology, Engineering, and Mathematics for Elementary Teachers	
CI 5329	The Elementary School Science Curriculum	

#### Elementary Arts and Social Studies

Choose 3 hours 3

CI 5328	Elementary Social Studies: Curriculum Problems	3
or RDG 5310	Teaching Literacy with Children's and Young Adult Literature	

#### Thesis Course Work

Choose a minimum of 6 hours 6

CI 5199B	Thesis	
CI 5299B	Thesis	
CI 5399A	Thesis	
CI 5399B	Thesis	
CI 5599B	Thesis	
CI 5999B	Thesis	

#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval) 12

Total Hours 36

### Early Childhood Specialization with Thesis and 6-hour Minor

#### Education Course Work

CI 5390	Research Seminar in Education	3
CI 5309	Talent Development	3

#### Concentration Course Work

CI 5327	Principles and Practices in the Elementary School	3
EDTC 5310	Introduction to Educational Technology	3
ECE 5318	Advanced Early Child Development: Readiness for Learning and Language Abilities	3
ECE 5319	Curriculum and the Young Child, I (Kindergarten)	3
ECE 5330	Curriculum and the Young Child, II (Kindergarten)	3
ECE 5380	Independent Study in Early Childhood	3

**Thesis Course Work**

Choose a minimum of 6 hours	6
CI 5199B Thesis	
CI 5299B Thesis	
CI 5399A Thesis	
CI 5399B Thesis	
CI 5599B Thesis	
CI 5999B Thesis	

**Minor Course Work**

Choose a 6-hour minor (Needs advisor approval)	6
Total Hours	36

**Talent Development Specialization with Thesis****Education Course Work**

CI 5390 Research Seminar in Education	3
CI 5309 Talent Development	3

**Concentration Course Work**

CI 5375 Problems in Elementary Education	3
CI 5310 Creativity: Theories, Research, and Applications	3
CI 5311 Practicum in Talent Development	3
CI 5319 Social, Emotional, and Cultural Contexts of Advanced Development	3
CI 7352 Beginning Qualitative Design and Analysis	3
CI 5330 Multicultural Teaching and Learning	3

**Thesis Course Work**

Choose a minimum of 6 hours	6
CI 5199B Thesis	
CI 5299B Thesis	
CI 5399A Thesis	
CI 5399B Thesis	
CI 5599B Thesis	
CI 5999B Thesis	
Total Hours	30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

**Thesis Proposal**

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the

proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

**Thesis Committee**

The thesis committee must be composed of a minimum of three approved graduate faculty members.

**Thesis Enrollment and Credit**

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

**Fee Reduction**

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

**Thesis Deadlines and Approval Process**

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Curriculum and Instruction: CI (p. 737), DE (p. 741), ECE (p. 742), EDTC (p. 742), RDG (p. 743), SPED (p. 744)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5309. Talent Development.

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5310. Creativity: Theories, Research, and Applications.

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Education (M.Ed.), Major in Elementary Education

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/elem.html>.

## Course Work Requirements

### Minor Option

#### Education Course Work

CI 5309	Talent Development	3
CI 5327	Principles and Practices in the Elementary School	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
EDTC 5310	Introduction to Educational Technology	3

#### Strategies

CI 5310	Creativity: Theories, Research, and Applications	3
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#### Elementary Math/Science

Choose 3 hours 3

CI 5303	Teaching Math in the Elementary School	
CI 5304	Science, Technology, Engineering, and Mathematics for Elementary Teachers	
CI 5329	The Elementary School Science Curriculum	

#### Elementary Social Studies/Reading

CI 5312	Elementary Language Arts: Current Trends	3
or CI 5328	Elementary Social Studies: Curriculum Problems	

#### Cultural Issues

Choose 3 hours 3

CI 5319	Social, Emotional, and Cultural Contexts of Advanced Development	
CI 5330	Multicultural Teaching and Learning	
CI 5336	Methods and Materials for Teaching English as a Second Language	
RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	

#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval) 12

Total Hours 36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

## Early Childhood Specialization with Minor

#### Education Course Work

CI 5309	Talent Development	3
CI 5327	Principles and Practices in the Elementary School	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
EDTC 5310	Introduction to Educational Technology	3

#### Early Childhood Course Work

ECE 5318	Advanced Early Child Development: Readiness for Learning and Language Abilities	3
ECE 5319	Curriculum and the Young Child, I (Kindergarten)	3
ECE 5330	Curriculum and the Young Child, II (Kindergarten)	3

ECE 5380	Independent Study in Early Childhood	3
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#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval) 12

Total Hours 36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

## Talent Development Emphasis with Minor

#### Education Course Work

CI 5309	Talent Development	3
CI 5310	Creativity: Theories, Research, and Applications	3
or CI 5381	Advanced Creativity, Curiosity, and Interest	
CI 5311	Practicum in Talent Development	3
CI 5330	Multicultural Teaching and Learning	3
or CI 5388	The Politics of Language	
CI 5359	Curriculum for Depth and Challenge	3
or CI 5368	The Politics and Creativity of Being and Becoming	
CI 5383	Mentoring Across the Life Span	3
CI 5389	Action Research for Practitioners	3
or DE 5373	Grant Development and Management	
CI 5390	Research Seminar in Education <sup>1</sup>	3

#### Elective Course Work

Choose 1 course from the following: 3

CI 5317	Teaching Strategies for Elementary Teachers: Alternative Models	
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	
EDTC 5310	Introduction to Educational Technology	

#### Minor Course Work

Choose a 9-hour minor (Needs advisor approval) 9

Total Hours 36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

## 4-8 ELA/Reading/Social Studies Certification Option

CI 5308	Introduction to Gifted/Talented Education	3
CI 5314	Human Growth and Development II	3
CI 5322	Middle School Instructional Strategies and Practices	3
CI 5323	Middle School Philosophy and Learning	3
CI 5328	Elementary Social Studies: Curriculum Problems	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
EDTC 5310	Introduction to Educational Technology	3
RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5340	Connecting Reading and Writing in the Classroom	3
RDG 5345	Assessment-Driven Literacy Instruction	3
SPED 5326	Educating Students with Mild Disabilities	3
Total Hours		36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

### 4-8 Science Certification Option

CI 5304	Science, Technology, Engineering, and Mathematics for Elementary Teachers	3
CI 5308	Introduction to Gifted/Talented Education	3
CI 5313	Research Seminar in Human Growth and Development	3
or CI 5314	Human Growth and Development II	
CI 5322	Middle School Instructional Strategies and Practices	3
CI 5323	Middle School Philosophy and Learning	3
CI 5329	The Elementary School Science Curriculum	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools <sup>2</sup>	3
SPED 5326	Educating Students with Mild Disabilities	3
<b>Graduate Science Requirement</b>		6
Choose 6 hours of science elective course work with advisor approval		
Total Hours		36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

### 4-8 Math Certification Option

CI 5303	Teaching Math in the Elementary School	3
CI 5308	Introduction to Gifted/Talented Education	3
CI 5314	Human Growth and Development II	3
CI 5322	Middle School Instructional Strategies and Practices	3
CI 5323	Middle School Philosophy and Learning	3
CI 5329	The Elementary School Science Curriculum	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	3
SPED 5326	Educating Students with Mild Disabilities	3
<b>Graduate Math Requirement</b>		
Choose 6 hours of math elective course work with advisor approval		
Total Hours		36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

### 4-8 Generalist Certification Option

CI 5303	Teaching Math in the Elementary School	3
CI 5314	Human Growth and Development II	3
CI 5322	Middle School Instructional Strategies and Practices	3
CI 5323	Middle School Philosophy and Learning	3
CI 5328	Elementary Social Studies: Curriculum Problems	3
CI 5329	The Elementary School Science Curriculum	3
CI 5330	Multicultural Teaching and Learning	3
CI 5390	Research Seminar in Education <sup>1</sup>	3

RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5340	Connecting Reading and Writing in the Classroom	3
RDG 5345	Assessment-Driven Literacy Instruction	3
SPED 5326	Educating Students with Mild Disabilities	3
Total Hours		36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

### EC-6 Generalist ESL Certification Option

#### Education Course Work <sup>1</sup>

CI 5303	Teaching Math in the Elementary School	3
CI 5313	Research Seminar in Human Growth and Development	3
CI 5326	Curriculum & Management in the Elementary & Middle School	3
CI 5328	Elementary Social Studies: Curriculum Problems	3
CI 5329	The Elementary School Science Curriculum	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5337	Language Acquisition and Development	3
CI 5387	Bilingual Education: Principles and Practices	3
ECE 5318	Advanced Early Child Development: Readiness for Learning and Language Abilities	3
or ECE 5319	Curriculum and the Young Child, I (Kindergarten)	
RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5340	Connecting Reading and Writing in the Classroom	3
SPED 5326	Educating Students with Mild Disabilities	3
Total Hours		36

<sup>1</sup> CI 5313 should be taken in the first or second semester of attendance. CI 5326 should be taken by the end of the second semester. RDG 5340, CI 5303, CI 5328, and CI 5329 should be taken during the last 15 hours.

### EC-6 Generalist Bilingual Certification Option

#### Education Course Work

CI 5326	Curriculum & Management in the Elementary & Middle School	3
CI 5328	Elementary Social Studies: Curriculum Problems	3
CI 5329	The Elementary School Science Curriculum	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5374	Bilingual/ESL Content Area Instruction	3
CI 5387	Bilingual Education: Principles and Practices	3
RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5340	Connecting Reading and Writing in the Classroom	3
SPED 5326	Educating Students with Mild Disabilities	3
<b>Specialization Course Work</b>		
CI 5303	Teaching Math in the Elementary School	3



CI 5313	Research Seminar in Human Growth and Development <sup>1</sup>	3
CI 5337	Language Acquisition and Development	3
Total Hours		36

<sup>1</sup> CI 5313 should be taken in the first semester of attendance.

## Master Math Teacher EC-4 Certification Option

CI 5302	Practical Statistics for Educators	3
CI 5303	Teaching Math in the Elementary School	3
CI 5304	Science, Technology, Engineering, and Mathematics for Elementary Teachers	3
CI 5305	Methods in Geometry for Elementary Math Teachers	3
CI 5306	Evaluative Techniques for the Classroom Teacher	3
CI 5310	Creativity: Theories, Research, and Applications	3
CI 5315	Coaching Skills for Elementary Math Mentors	3
CI 5316	Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers	3
CI 5330	Multicultural Teaching and Learning	3
CI 5339	Project-Based Instruction	3
CI 5389	Action Research for Practitioners	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
Total Hours		36

<sup>1</sup> CI 5390 should be taken in the first semester of attendance.

Master's level courses in Curriculum and Instruction: CI (p. 749), DE (p. 753), ECE (p. 754), EDTC (p. 754), RDG (p. 755), SPED (p. 756)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required. Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5365. Biliiteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



# Master of Arts (M.A.), Major in Elementary Education-Bilingual/Bicultural

## Admission Policy

For information regarding admission application requirements and deadlines, please visit the Graduate College website at <http://www.gradcollege.txstate.edu/bibi.html>.

### Course Work Requirements

#### Education Course Work

CI 5306	Evaluative Techniques for the Classroom Teacher	3
CI 5327	Principles and Practices in the Elementary School	3
CI 5330	Multicultural Teaching and Learning	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5374	Bilingual/ESL Content Area Instruction	3
CI 5387	Bilingual Education: Principles and Practices	3

#### Thesis Course Work

Choose a minimum of 6 hours		6
CI 5199B	Thesis	
CI 5299B	Thesis	
CI 5399A	Thesis	
CI 5399B	Thesis	
CI 5599B	Thesis	
CI 5999B	Thesis	

#### Minor Course Work

Choose a 6-hour minor (Needs advisor approval)		6
<b>Total Hours</b>		<b>30</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form

be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or

PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Curriculum and Instruction: CI (p. 760), DE (p. 764), ECE (p. 765), EDTC (p. 765), RDG (p. 766), SPED (p. 767)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5309. Talent Development.

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5310. Creativity: Theories, Research, and Applications.

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5311. Practicum in Talent Development.

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required. Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit  
**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Early Childhood Education (ECE)

**ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Educational Technology (EDTC)

**EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Education (M.Ed.), Major in Elementary Education-Bilingual/Bicultural

## Admission Policy

For information regarding admission application requirements and deadlines, please visit the Graduate College website at <http://www.gradcollege.txstate.edu/bibi.html>.

## Degree Requirements

The 36-hour master of education (M.Ed.) with a major in elementary education-bilingual/bicultural consists of 24 semester hours in bilingual and elementary education and a minor of 12 hours in an approved academic area, such as reading, early childhood, secondary education, talent development, educational administration, special education, or a composite area.

## Course Work Requirements

Education Course Work		
CI 5327	Principles and Practices in the Elementary School	3
CI 5330	Multicultural Teaching and Learning	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5337	Language Acquisition and Development	3
CI 5374	Bilingual/ESL Content Area Instruction	3
CI 5377	Problems in Bilingual Education	3
CI 5387	Bilingual Education: Principles and Practices	3
CI 5390	Research Seminar in Education	3
Minor Course Work		
Choose a 12-hour minor (Needs advisor approval)		12
Total Hours		36

Master's level courses in Curriculum and Instruction: CI (p. 770), DE (p. 774), ECE (p. 775), EDTC (p. 775), RDG (p. 776), SPED (p. 777)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5308. Introduction to Gifted/Talented Education.**

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting.

Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required. Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making.

Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375  
**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Master of Education (M.Ed.), Major in Educational Technology

### Major Program

Graduates of the educational technology program will be prepared to teach technology applications, use technology to support student learning of subject-area content, and provide professional development, mentoring, and basic technical and instructional assistance to other professional educators on their campuses and/or in their districts.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/edtc.html>.

#### Course Work Requirements

##### Required Courses

CI 5390	Research Seminar in Education <sup>1</sup>	3
EDTC 5310	Introduction to Educational Technology	3
EDTC 5315	Advanced Educational Technology	3
EDTC 5320	Models of Integration of Educational Technology	3
EDTC 5325	Managing Educational Technology	3
EDTC 5330	Implementing Technology in Education	3
EDTC 5335	Instructional Design for Educational Technology	3
EDTC 5340	Issues in Educational Technology	3
EDTC 5345	Educational Technology Internship	3

##### Minor in Cognate

Choose 12 hours from the following: <sup>2</sup>		12
ADED 5321	Adult Learning and Development	
ADED 5344	Multicultural Perspectives in Postsecondary Education and Adult Education	
ADED 5382	Foundations of Adult Education	
CI 5306	Evaluative Techniques for the Classroom Teacher	
CI 5312	Elementary Language Arts: Current Trends	
CI 5314	Human Growth and Development II	
CI 5333	The Secondary Curriculum	
CI 5363	Strategies for Improving Secondary Teaching	
DE 5375	Learners in Developmental Education Contexts	
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	
RDG 5340	Connecting Reading and Writing in the Classroom	

Total Hours

39

<sup>1</sup> CI 5390 must be taken within the first 12 hours of the graduate program.

<sup>2</sup> Other courses from the College of Education may be selected in consultation with the graduate advisor and with approval from The Graduate College.

Master's level courses in Curriculum and Instruction: CI (p. 780), DE (p. 784), ECE (p. 785), EDTC (p. 785), RDG (p. 786), SPED (p. 788)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5305. Methods in Geometry for Elementary Math Teachers.**

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CI 5306. Evaluative Techniques for the Classroom Teacher.**

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5307. Probability and Statistics Methods for Elementary Math Teachers.**

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5308. Introduction to Gifted/Talented Education.**

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular.

Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit  
**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Education (M.Ed.), Major in Reading Education

## Major Program

The reading education major consists of course work in language and literacy development, reading and writing theory and research, teaching literacy from PK through grade 16, teaching with children's/young adult/adult literature, teaching reading and writing in a multilingual/multicultural environment, literacy assessment, and internship. Reading education majors are prepared to meet the International Reading Association professional standards for Reading Specialist/Literacy Coach or the Reading Administrator. Certified teachers with three or more years of teaching experience who successfully complete the major and pass the Professional Reading Specialist Texas Examination of Educator Standards (TExES) qualify for the PK-12 Professional Reading Specialist certificate. An academic minor in reading education is available for those students majoring in other areas. Neither the major nor the minor leads to initial certification as a teacher.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/rdg.html>.

## Degree Requirements

The 36-hour major consists of 30 hours of course work and a 6 hour cognate.

### Course Work Requirements

#### Reading Course Work

RDG 5310	Teaching Literacy with Children's and Young Adult Literature	3
RDG 5320	Foundations of Literacy Instruction	3
RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5326	Developmental Literacy in the Middle and Secondary Schools	3
RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	3
RDG 5340	Connecting Reading and Writing in the Classroom	3
RDG 5345	Assessment-Driven Literacy Instruction	3
RDG 6330	Language Acquisition and Development for Literacy Instruction	3

#### Practicum/Internship

RDG 6336	6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools	3
RDG 6333	Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development	3

#### Minor in Cognate

Choose 6 hours of graduate advisor approved electives	6
<b>Total Hours</b>	<b>36</b>

Master's level courses in Curriculum and Instruction: CI (p. 791), DE (p. 795), ECE (p. 796), EDTC (p. 796), RDG (p. 797), SPED (p. 798)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5309. Talent Development.

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5310. Creativity: Theories, Research, and Applications.

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5311. Practicum in Talent Development.

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5312. Elementary Language Arts: Current Trends.

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Arts (M.A.), Major in Secondary Education

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sced.html>.

## Degree Requirements

The master of arts (M.A.) consists of a minimum of 30 semester hours. Several courses leading to the master's degree are available via the internet.

### Course Work Requirements

#### Secondary Education Course Work

CI 5390	Research Seminar in Education	3
CI 5302	Practical Statistics for Educators	3
CI 5389	Action Research for Practitioners	3
or CI 7326	Grant Development and Management	
CI 5339	Project-Based Instruction	3
or RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	
CI 5306	Evaluative Techniques for the Classroom Teacher	3
or SPED 5326	Educating Students with Mild Disabilities	

#### Thesis Course Work

Choose a minimum of 6 hours		6
CI 5199B	Thesis	
CI 5299B	Thesis	
CI 5399A	Thesis	
CI 5399B	Thesis	
CI 5599B	Thesis	
CI 5999B	Thesis	

#### Minor in Cognate

Chose 9 hours of graduate advisor approved electives	9
Total Hours	30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research

involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of

commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Curriculum and Instruction: CI (p. 802), DE (p. 806), ECE (p. 807), EDTC (p. 807), RDG (p. 808), SPED (p. 809)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5309. Talent Development.

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5310. Creativity: Theories, Research, and Applications.

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives.

The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit  
**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

# Master of Education (M.Ed.), Major in Secondary Education

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sced.html>.

## Degree Requirements

The 36-hour master of education (M.Ed.) with a major in secondary education consists of either:

- 24 semester hours in secondary education and 9-12 semester hours in an academic minor or a composite program (depending on concentration selected); or
- 18 semester hours in secondary education and 18 semester hours in an academic minor or cognate.

Students who do not have a teaching certificate may be required to complete specific background courses before beginning graduate course work. A student may also pursue the secondary education M.Ed. with a concentration in educational technology, talent development, or teaching dual credit courses.

## Course Work Requirements

### Minor Option

#### Secondary Education Course Work

CI 5302	Practical Statistics for Educators	3
CI 5339	Project-Based Instruction	3
CI 5389	Action Research for Practitioners	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
DE 5373	Grant Development and Management	3
EDTC 5310	Introduction to Educational Technology	3
Choose 6 hours of advisor approved electives:		6
CI 5330	Multicultural Teaching and Learning	
CI 5372	Philosophical Foundations of Education	
CI 5383	Mentoring Across the Life Span	
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	
EDTC 5334	Online Learning and Course Design	

#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval)	12
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> CI 5390 must be taken in the first 6 hours of enrollment.

### Teaching Certification (CMED) Option with Minor

#### Secondary Education Course Work

CI 5306	Evaluative Techniques for the Classroom Teacher	3
CI 5314	Human Growth and Development II	3
CI 5333	The Secondary Curriculum	3
CI 5363	Strategies for Improving Secondary Teaching	3
CI 5370	Classroom Management, Discipline, and Legal Issues	3
CI 5390	Research Seminar in Education <sup>1</sup>	3

EDTC 5310	Introduction to Educational Technology	3
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	3

#### Minor Course Work

Choose 12-hour minor (Needs advisor approval)	12
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> CI 5390 must be taken in the first 6 hours of enrollment.

### Educational Technology Concentration with Minor

#### Secondary Education Course Work

CI 5333	The Secondary Curriculum	3
CI 5363	Strategies for Improving Secondary Teaching	3
EDTC 5310	Introduction to Educational Technology	3
EDTC 5315	Advanced Educational Technology	3
EDTC 5325	Managing Educational Technology	3
EDTC 5330	Implementing Technology in Education	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
CI 5314	Human Growth and Development II	3
Choose 1 advisor approved elective:		3

CI 5306 Evaluative Techniques for the Classroom Teacher

CI 5336 Methods and Materials for Teaching English as a Second Language

CI 5370 Classroom Management, Discipline, and Legal Issues

RDG 5331 Literacy Methods for Linguistically and Culturally Diverse Students

RDG 5340 Connecting Reading and Writing in the Classroom

SPED 5326 Educating Students with Mild Disabilities

SPED 5327 Educating Students with Autism and Other Developmental Disabilities

#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval)	12
<b>Total Hours</b>	<b>39</b>

<sup>1</sup> CI 5390 must be taken in the first 6 hours of enrollment.

### Talent Development Concentration with Minor

#### Secondary Education Course Work

CI 5309	Talent Development	3
CI 5310	Creativity: Theories, Research, and Applications	3
or CI 5381	Advanced Creativity, Curiosity, and Interest	
CI 5311	Practicum in Talent Development	3
CI 5330	Multicultural Teaching and Learning	3
or CI 5388	The Politics of Language	
CI 5359	Curriculum for Depth and Challenge	3
or CI 5368	The Politics and Creativity of Being and Becoming	
CI 5383	Mentoring Across the Life Span	3
CI 5389	Action Research for Practitioners	3
or DE 5373	Grant Development and Management	
CI 5390	Research Seminar in Education <sup>1</sup>	3
Choose 1 advisor approved elective:		3
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	



EDTC 5310	Introduction to Educational Technology	
CI 5339	Project-Based Instruction	
<b>Minor Course Work</b>		
Choose a 9-hour minor (Needs advisor approval)		9
Total Hours		36

<sup>1</sup> CI 5390 must be taken in the first 6 hours of enrollment.

## Teaching Dual Credit Courses Concentration with Minor

### Secondary Education Course Work

CI 5302	Practical Statistics for Educators	3
CI 5339	Project-Based Instruction	3
CI 5389	Action Research for Practitioners	3
CI 5390	Research Seminar in Education <sup>1</sup>	3
EDTC 5310	Introduction to Educational Technology	3
DE 5373	Grant Development and Management	3

### Minor in Cognate Course Work

Choose 18 hours of graduate advisor approved electives		18
Total Hours		36

<sup>1</sup> CI 5390 must be taken in the first 6 hours of enrollment.

Master's level courses in Curriculum and Instruction: CI (p. 813), DE (p. 817), ECE (p. 818), EDTC (p. 818), RDG (p. 819), SPED (p. 820)

## Courses Offered

### Curriculum and Instruction (CI)

#### CI 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CI 5302. Practical Statistics for Educators.

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5303. Teaching Math in the Elementary School.

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5305. Methods in Geometry for Elementary Math Teachers.

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### CI 5306. Evaluative Techniques for the Classroom Teacher.

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5307. Probability and Statistics Methods for Elementary Math Teachers.

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5308. Introduction to Gifted/Talented Education.

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5309. Talent Development.

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CI 5310. Creativity: Theories, Research, and Applications.

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels. Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



# Master of Education (M.Ed.), Major in Special Education

## Major Program

The master of education (M.Ed.) with a major in special education consists of course work in special education and a cognate or minor, depending upon the program of study. A student may pursue a master's in generic special education, a master's in special education with concentration, or a master's in special education plus teaching certification. Concentration areas include autism/applied behavior analysis, behavioral disorder/positive behavioral supports, and learning disabilities/inclusion. A student pursuing a degree in special education can seek a Texas State certificate in autism, behavioral disorders/positive behavioral supports, or learning disabilities/inclusion. Certificate programs range from 18-21 semester hours, most of which are included in the master's program.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sped.html>.

### Degree Requirements

The 36-hour master of education with a major in special education consists of 24-30 semester hours in special education, with 6-12 semester hours in a cognate or minor, depending upon the program of study. Certificates listed on this page are only available to current master of education students majoring in special education.

## Course Work Requirements

### Teacher Certification (CASE) concentration with Minor

#### Special Education Course Work

SPED 5311	Teaching Language Arts to Students with Disabilities	3
SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5326	Educating Students with Mild Disabilities	3
SPED 5327	Educating Students with Autism and Other Developmental Disabilities	3
SPED 5334	Assessment and Evaluation of Students with Disabilities	3
SPED 5360	Survey of Exceptionality	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5389	Special Education Practicum	3

#### Minor Course Work

Choose a 12-hour minor (Needs advisor approval)	12
<b>Total Hours</b>	<b>36</b>

### Behavioral Disorders/Positive Behavior Supports Concentration with Cognate Minor

#### Special Education Course Work

SPED 5310	Selected Topics in Special Education	3
SPED 5311	Teaching Language Arts to Students with Disabilities	3

SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5314	Advanced Educational Strategies for Students with Autism	3
SPED 5356	Advanced Practices in Learning Disabilities/Inclusion	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5382	Advanced Practices in Educating Students with Emotional/Behavioral Disorders	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3

#### Cognate Minor in BD/PBS

SPSY 5396	Biological Bases of Behavior	3
or PSY 5324	Biological Bases of Behavior	3
Choose 1 graduate advisor approved elective from:		3
CDIS 5333	Language Disorders in School-Age and Adolescence	
FCD 5344	Infant and Early Childhood Mental Health	
PSY 5370	Learning, Cognition, and Motivation	
SOWK 5310	Social Welfare Policy and Services	
SOWK 5312	Social Work Intervention in Drug Addiction & Abuse	
SOWK 5315	Social Work Intervention in Child Abuse & Neglect	
<b>Total Hours</b>		<b>36</b>

#### Certificate in Behavioral Disorders/positive Behavioral Support

SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5382	Advanced Practices in Educating Students with Emotional/Behavioral Disorders	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3
Electives (Select one course below):		3
SPED 5311	Teaching Language Arts to Students with Disabilities	
SPED 5314	Advanced Educational Strategies for Students with Autism	
SPED 5340	Principles and Practices of Effective Instruction	
<b>Total Hours</b>		<b>21</b>

### Autism/Applied Behavior Analysis Concentration with Cognate Minor

#### Special Education Course Work

SPED 5314	Advanced Educational Strategies for Students with Autism	3
SPED 5327	Educating Students with Autism and Other Developmental Disabilities	3



SPED 5329	Language Development and Intervention for Special Populations	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3
SPED 5391	Field-Based Practicum in Autism Spectrum Disorders	3

**Cognate Minor in Autism/ABA**

CI 5390	Research Seminar in Education	3
SPSY 5396	Biological Bases of Behavior	3
or PSY 5324	Biological Bases of Behavior	

Choose 6 hours from: 6

CDIS 5333	Language Disorders in School-Age and Adolescence	
ESS 5304	Motor Learning and Performance	
FCD 5341	Advanced Child Development	
FCD 5344	Infant and Early Childhood Mental Health	
PSY 5370	Learning, Cognition, and Motivation	

Total Hours 36

**Certificate in Autism**

SPED 5314	Advanced Educational Strategies for Students with Autism	3
SPED 5329	Language Development and Intervention for Special Populations	3
SPED 5327	Educating Students with Autism and Other Developmental Disabilities	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3
SPED 5391	Field-Based Practicum in Autism Spectrum Disorders	3
or SPED 5389	Special Education Practicum	

Total Hours 24

**Learning Disabilities/Inclusion Concentration with Cognate Minor**

SPED 5360	Survey of Exceptionality	3
SPED 5334	Assessment and Evaluation of Students with Disabilities	3
SPED 5326	Educating Students with Mild Disabilities	3
SPED 5311	Teaching Language Arts to Students with Disabilities	3
SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3

SPED 5355	Characteristics of Students with Learning Disabilities	3
SPED 5356	Advanced Practices in Learning Disabilities/Inclusion	3
SPED 5310	Selected Topics in Special Education	3

**Cognate Minor in Learning Disabilities/Inclusion**

CI 5317	Teaching Strategies for Elementary Teachers: Alternative Models	3
or CI 5322	Middle School Instructional Strategies and Practices	

Choose 1 class from: 3

EDTC 5310	Introduction to Educational Technology	
PSY 5370	Learning, Cognition, and Motivation	
RDG 5322	Teaching Reading in the Elementary and Middle Schools	

Total Hours 36

**Certificate in Learning Disabilities/Inclusion**

SPED 5311	Teaching Language Arts to Students with Disabilities	3
SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5355	Characteristics of Students with Learning Disabilities	3
SPED 5356	Advanced Practices in Learning Disabilities/Inclusion	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3

Total Hours 18

Master's level courses in Curriculum and Instruction: CI (p. 824), DE (p. 828), ECE (p. 829), EDTC (p. 830), RDG (p. 830), SPED (p. 832)

## Courses Offered

### Curriculum and Instruction (CI)

**CI 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.****Grade Mode:** Credit/No Credit**CI 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.****Grade Mode:** Credit/No Credit

**CI 5302. Practical Statistics for Educators.**

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5303. Teaching Math in the Elementary School.**

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.**

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5305. Methods in Geometry for Elementary Math Teachers.**

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CI 5306. Evaluative Techniques for the Classroom Teacher.**

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5307. Probability and Statistics Methods for Elementary Math Teachers.**

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5308. Introduction to Gifted/Talented Education.**

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting.

Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required. Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored. Prerequisite: CI 5310  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**Development Education (DE)****DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Early Childhood Education (ECE)****ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Educational Technology (EDTC)****EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Reading (RDG)****RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making.

Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**Special Education (SPED)****SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels.

Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Minor in Developmental Education

DE 5324	Teaching Learning Strategies and Critical Thinking	3
DE 5365	Administration of Developmental Education	3
DE 5375	Learners in Developmental Education Contexts	3
DE 5384	Internship in Developmental Education	3
CI 5330	Multicultural Teaching and Learning	3
Total Hours		15

## Minor in Developmental Education (Community College Support)

DE 5321	The Community College	3
DE 5324	Teaching Learning Strategies and Critical Thinking	3
DE 5365	Administration of Developmental Education	3
DE 5384	Internship in Developmental Education	3
DE 7325	Advising Developmental Students	3
Total Hours		15

## Minor in Elementary Education

CI 5313	Research Seminar in Human Growth and Development	3
CI 5326	Curriculum & Management in the Elementary & Middle School	3
CI 5327	Principles and Practices in the Elementary School	3
Choose 1 graduate advisor approved elective from:		3
CI 5303	Teaching Math in the Elementary School	
CI 5312	Elementary Language Arts: Current Trends	
CI 5328	Elementary Social Studies: Curriculum Problems	
CI 5329	The Elementary School Science Curriculum	
Total Hours		12

## Minor in Elementary Education-Bilingual/Bicultural

CI 5312	Elementary Language Arts: Current Trends	3
CI 5374	Bilingual/ESL Content Area Instruction	3
CI 5387	Bilingual Education: Principles and Practices	3
LING 5315	Psycholinguistics	3
Total Hours		12

## Minor in Gifted and Talented

The Department of Curriculum and Instruction offers a minor in gifted and talented.

### Course Work Requirements

CI 5308	Introduction to Gifted/Talented Education	3
CI 5310	Creativity: Theories, Research, and Applications	3
CI 5311	Practicum in Talent Development	3
CI 5319	Social, Emotional, and Cultural Contexts of Advanced Development	3
CI 5324	Systems for Advanced Academics and Talent Development	3
Total Hours		15

## Minor in Methods and Materials

### Elementary Education - Methods and Materials

Graduate Advisor Approved Electives <sup>1</sup>

<sup>1</sup> Hours required depends on major options chosen. Please see graduate advisor for more information.

### Elementary Education - Bilingual/Bicultural - Methods and Materials

ENG 5300	Language Problems in a Multicultural Environment	3
or ENG 5310	Studies in English Language and Linguistics	
LING 5311	Applied Linguistics	3
or LING 5315	Psycholinguistics	
SOCI 5370	Seminar in Multi-Cultural Relations	3
SPAN 5318	Advanced Composition and Grammar	3
Total Hours		12

### Elementary Education Teacher Fellows - Methods and Materials

CI 5375	Problems in Elementary Education	3
Methods and Materials Electives		12
CI 5303	Teaching Math in the Elementary School	
CI 5310	Creativity: Theories, Research, and Applications	
CI 5312	Elementary Language Arts: Current Trends	
CI 5328	Elementary Social Studies: Curriculum Problems	
CI 5329	The Elementary School Science Curriculum	
CI 5330	Multicultural Teaching and Learning	
CI 5336	Methods and Materials for Teaching English as a Second Language	
ECE 5319	Curriculum and the Young Child, I (Kindergarten)	
ECE 5330	Curriculum and the Young Child, II (Kindergarten)	
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	
EDCL 5340	Shaping Organizations and Using Inquiry: Management and Leadership	
EDTC 5310	Introduction to Educational Technology	

EDTC 5315	Advanced Educational Technology	
ENG 5388	Studies in Literature for Children or Adolescents	
GEO 5340	Practicum in Geographic Education	
RDG 5322	Teaching Reading in the Elementary and Middle Schools	
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	
RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	
RDG 5340	Connecting Reading and Writing in the Classroom	
RDG 5380	Independent Study in Reading Research	
SOCI 5370	Seminar in Multi-Cultural Relations	
SPED 5334	Assessment and Evaluation of Students with Disabilities	
TH 5370	Studies in Advanced Creative Dramatics for Children	

Total Hours 15

### Secondary Education - Methods and Materials

SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5334	Assessment and Evaluation of Students with Disabilities	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3

Total Hours 12

### Special Education - Methods and Materials

CI 5303	Teaching Math in the Elementary School	3
or CI 5329	The Elementary School Science Curriculum	
CI 5333	The Secondary Curriculum	3
CI 5336	Methods and Materials for Teaching English as a Second Language	3
CI 5337	Language Acquisition and Development	3

Total Hours 12

## Minor in Reading Education

RDG 5322	Teaching Reading in the Elementary and Middle Schools	3
RDG 5326	Developmental Literacy in the Middle and Secondary Schools	3
RDG 5345	Assessment-Driven Literacy Instruction	3
Reading Electives (Choose 1 class)		3
RDG 5310	Teaching Literacy with Children's and Young Adult Literature	
RDG 5320	Foundations of Literacy Instruction	
RDG 5324	Developing Content Area Literacy in Middle and Secondary Schools	

RDG 5331	Literacy Methods for Linguistically and Culturally Diverse Students	
RDG 5340	Connecting Reading and Writing in the Classroom	
RDG 5370A	New Literacies	
RDG 5370B	Social, Cultural, and Political Contexts of Literacy Instruction	
RDG 5370C	Foundations of Integrated Reading & Writing Pedagogy	
RDG 5370D	Community Literacy	
RDG 5395	Teaching Academic Literacy to Adults	
Total Hours		12

## Minor in Secondary Education

CI 5306	Evaluative Techniques for the Classroom Teacher	3
EDTC 5310	Introduction to Educational Technology	3
CI 5333	The Secondary Curriculum	3
CI 5363	Strategies for Improving Secondary Teaching	3
CI 5372	Philosophical Foundations of Education	3
Total Hours		15

## Minor in Special Education

SPED 5360	Survey of Exceptionality	3
SPED 5326	Educating Students with Mild Disabilities	3
or SPED 5327	Educating Students with Autism and Other Developmental Disabilities	
Development Perspectives of the Mildly Disabled (Choose 1 class)		3
SPED 5325	Development Perspectives of the Mildly Disabled	
SPED 5334	Assessment and Evaluation of Students with Disabilities	
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	
Special Education Electives (Choose 6 hours of SPED with advisor approval)		6
Total Hours		15

## Certificate in Autism

### Course Work Requirements

SPED 5327	Educating Students with Autism and Other Developmental Disabilities	3
SPED 5314	Advanced Educational Strategies for Students with Autism	3
SPED 5329	Language Development and Intervention for Special Populations	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3
SPED 5391	Field-Based Practicum in Autism Spectrum Disorders	3

or SPED 5389	Special Education Practicum	
Total Hours		24

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html#Autism](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html#Autism).

## Certificate in Behavioral Disorders/Positive Behavioral Support

### Course Work Requirements

SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
SPED 5386	Advanced Techniques in Applied Behavioral Analysis	3
SPED 5387	Single-Subject Research Methods and Designs	3
SPED 5382	Advanced Practices in Educating Students with Emotional/Behavioral Disorders	3
Electives (Choose One)		3
SPED 5314	Advanced Educational Strategies for Students with Autism	
SPED 5340	Principles and Practices of Effective Instruction	
SPED 5311	Teaching Language Arts to Students with Disabilities	
Total Hours		21

## Admission Policy

For information regarding admission requirements and deadlines, please visit The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html#Behavioral](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html#Behavioral).

## Certificate in Developmental Education

### Course Work Requirements

DE 5324	Teaching Learning Strategies and Critical Thinking	3
DE 5375	Learners in Developmental Education Contexts	3
CI 5330	Multicultural Teaching and Learning	3
DE 5365	Administration of Developmental Education	3
DE 5384	Internship in Developmental Education	3
Total Hours		15

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html#Behavioral](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html#Behavioral).

[www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Certificate in Learning Disabilities/Inclusion

### Course Work Requirements

SPED 5311	Teaching Language Arts to Students with Disabilities	3
SPED 5313	Education Students with Emotional/Behavioral Disorders	3
SPED 5355	Characteristics of Students with Learning Disabilities	3
SPED 5356	Advanced Practices in Learning Disabilities/Inclusion	3
SPED 5375	Behavior Management: School Application of Applied Behavior Analysis	3
SPED 5380	Positive Behavior Interventions and Supports in Schools	3
Total Hours		18

### Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Department of Health and Human Performance

Jowers Center Room A116  
T: 512.245.2561 F: 512.245.8678  
<http://www.hhp.txstate.edu/>

The Department of Health and Human Performance at Texas State prepares students for careers and doctoral study in many areas including athletic training, cardiac rehabilitation, exercise science, health promotion, kinesiology, physical education, recreation administration, recreation therapy, sport education, and strength and conditioning. Our faculty are nationally and internationally known for their research on autism, biomechanics, exercise physiology, fitness, health promotion, musculoskeletal injury, physical education, and recreation administration and therapy. Recent visiting scholars to the department have come from Brazil, Egypt, Korea, England, and Russia.

The mission of the Department of Health and Human Performance is to create and disseminate knowledge promoting evidence-based practice in athletic training, health promotion, exercise science, and recreation professions. We work to directly promote improved human performance and quality of life through evidence-based educational, recreational, and therapeutic interventions and programs. Our vision is to be a national leader in promoting human performance and health-related quality of life for all.

### Financial Assistance

Because the department has a large instructional program for the general university student in addition to broad undergraduate athletic training, exercise science, health education, and recreation major programs,

there are extensive opportunities for teaching assistantships, research assistantships, or internships. To be considered for positions as graduate assistant instructors, applicants must have unconditional admission to The Graduate College. Applicants who are interested in these positions should go to <http://www.hhp.txstate.edu>.

### Master of Education (M.Ed.)

- Major in Health Education (p. 845)
- Major in Physical Education (p. 848)

### Master of Science (M.S.)

- Major in Athletic Training (p. 837)
- Major in Exercise Science (p. 840)

### Master of Science in Recreation and Leisure Services (M.S.R.L.S.)

- Major in Recreation and Leisure Services – Recreation Management (p. 858)
- Major in Recreation and Leisure Services – Therapeutic Recreation (p. 862)

### Minors

- Exercise Science (p. 866)
- Health Education (p. 866)
- Physical Education (p. 866)
- Recreation and Leisure Services (p. 866)

## Master of Science (M.S.), Major in Athletic Training

### Degree Program

The master of science (M.S.) with a major in athletic training is designed as an advanced post-professional athletic training curriculum for the board-certified athletic trainer. The graduate student in athletic training may choose from either the thesis or the non-thesis option.

As background prerequisites, an athletic training major is expected to have graduated from an academic institution that is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) or presently be certified through the Board of Certification, Inc.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/at.html>.

### Degree Requirements

The graduate student in athletic training may choose from either the thesis (34 hours) or the non-thesis (37 hours) option.

### Course Work Requirements

#### Non-thesis Option

#### Athletic Training Course Work

ESS 5346	Research Methods in Health and Human Performance	3
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AT 5312	Evidence-Based Practice in Sports Medicine	3
AT 5310	Proprioception and Neuromuscular Control in Rehabilitation	3
AT 5311	Biomechanics of Musculoskeletal Injury	3
AT 5318	Therapeutic Evaluation and Intervention	3
AT 5307	Bioenergetics of Exercise and Rehabilitation	3
AT 5308	Therapeutic Exercise and Rehabilitation	3
PT 5400	Human Structure and Function	4
ESS 5356	Applied Statistics in Health and Human Performance	3
AT 5347	Independent Study in Athletic Training	3
<b>Elective Course Work</b>		
Choose 6 hours from the following:		6
ESS 5304	Motor Learning and Performance	
ESS 5305	Advanced Fitness Assessment and Exercise Prescription	
ESS 5306	Advanced Exercise Physiology	
ESS 5307	Advanced Resistance Training and Conditioning	
ESS 5309	Biomechanics for Exercise & Sports Science	
ESS 5311	Applied Neuromuscular and Skeletal Muscle Physiology	
NUTR 5364	The Science of Nutrition and Exercise	
PT 7231	Anatomy II – Spine	
PT 7241	Anatomy III - Lower Extremity	
PT 7251	Anatomy IV - Upper Extremity	
PT 7363	Body Systems III – Cardiovascular/Pulmonary System	
Total Hours		37

### Thesis Option

#### Athletic Training Course Work

ESS 5346	Research Methods in Health and Human Performance	3
AT 5312	Evidence-Based Practice in Sports Medicine	3
AT 5310	Proprioception and Neuromuscular Control in Rehabilitation	3
AT 5311	Biomechanics of Musculoskeletal Injury	3
AT 5318	Therapeutic Evaluation and Intervention	3
AT 5307	Bioenergetics of Exercise and Rehabilitation	3
AT 5308	Therapeutic Exercise and Rehabilitation	3
PT 5400	Human Structure and Function	4
ESS 5356	Applied Statistics in Health and Human Performance	3

#### Thesis Course Work

Choose a minimum 6 hours		6
AT 5199B	Thesis	
AT 5299B	Thesis	
AT 5399A	Thesis	
AT 5399B	Thesis	
AT 5599B	Thesis	
AT 5999B	Thesis	
Total Hours		34

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis



course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: AT

## Courses Offered

### Athletic Training (AT)

#### AT 5101. Graduate Assistant Development.

This course is required of all graduate assistants and provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the spring semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### AT 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### AT 5201. Graduate Assistant Development.

This course is required of all graduate assistants and provides in-service and planned periodic evaluations of instructional responsibilities.

Graduate assistants are required to register for this course in the fall semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### AT 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### AT 5302. Special Topics in Athletic Training.

This course is designed to educate students in the scientific process and develop an in-depth understanding of the research process in Athletic Training

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AT 5303. Seminar in Athletic Training.

Current trends in athletic and physical education concerning the care and prevention of injuries with special emphasis on therapeutic and rehabilitation techniques. Taping and bandaging will be practiced in a laboratory situation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AT 5307. Bioenergetics of Exercise and Rehabilitation.

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in physiological basis of muscular, respiratory, cardiovascular, and nervous systems in the rehabilitation of all athletic injuries. Must be admitted to the MS in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AT 5308. Therapeutic Exercise and Rehabilitation.

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in the rehabilitation setting, as well as to impart knowledge pertaining to the physiological effects, indications, contraindications and applications of therapeutic exercise in the rehabilitation of all athletic injuries. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### AT 5310. Proprioception and Neuromuscular Control in Rehabilitation.

This course provides for an advanced study of the concepts, theories, and current research related to proprioception, postural stability, and neuromuscular control as applied to the prevention, diagnosis, and clinical management of sport-related musculoskeletal injuries and concussions. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5311. Biomechanics of Musculoskeletal Injury.**

This course focuses on the application of biomechanical principles to the pathoetiology, diagnosis, and physiological capacity for healing of injuries to bone, ligament, tendon, cartilage, and other human tissues, with an emphasis on current injury research. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5312. Evidence-Based Practice in Sports Medicine.**

This course is designed to provide students with advanced study in the elements of evidence-based practice in sports medicine with focus on the role of accessing, retrieving, and critically appraising evidence to answer clinical questions in patient care. Must be admitted to the M.S. in Athletic Training Program or instructor approval required. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5318. Therapeutic Evaluation and Intervention.**

This course explores the scientific bases of therapeutic musculoskeletal exercise and neuromuscular evaluative techniques in the rehabilitation process. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5347. Independent Study in Athletic Training.**

This course may be taken by a student who desires to work on a research problem or investigation in Athletic Training. The student gathers and analyzes pertinent data and submits a report of the results of the research. Repeatable once for credit. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in AT 5399B.

Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

# Master of Science (M.S.), Major in Exercise Science

## Major Program

Students seeking a master of science (M.S.) with a major in exercise science will appreciate the value and importance of research-based literature and have the critical thinking, research, and technical skills to:

1. understand research-based literature;
2. use innovative approaches to problem solving;
3. successfully pursue a doctoral degree in exercise science or related discipline;
4. work in athletic, clinical (e.g., cardiopulmonary rehabilitation and diagnostic testing), educational, and fitness settings; and
5. sit for advanced professional certifications (e.g., the American College of Sports Medicine Certified Clinical Exercise Specialist, Certified Health Fitness Specialist, Certified Strength and Conditioning Specialist, or Registered Clinical Exercise Physiologist).

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/exsc.html>.

### Course Work Requirements

### Thesis Option

#### Exercise Science Course Work

ESS 5304	Motor Learning and Performance	3
ESS 5309	Biomechanics for Exercise & Sports Science	3
ESS 5346	Research Methods in Health and Human Performance	3
ESS 5356	Applied Statistics in Health and Human Performance	3

Choose 3 hours from the following: 3

ESS 5306	Advanced Exercise Physiology
ESS 5310	Cardiopulmonary Exercise Physiology
ESS 5311	Applied Neuromuscular and Skeletal Muscle Physiology

#### Exercise Science Electives

Choose 12 hours from the following: 12

ESS 5305	Advanced Fitness Assessment and Exercise Prescription
ESS 5306	Advanced Exercise Physiology
ESS 5307	Advanced Resistance Training and Conditioning
ESS 5308	Physical Activity, Exercise, and Epidemiology
ESS 5310	Cardiopulmonary Exercise Physiology
ESS 5311	Applied Neuromuscular and Skeletal Muscle Physiology
ESS 5322	Inclusion and Diversity in Physical Activity and Sport
ESS 5398	Internship in Exercise and Sports Science
ESS 5344	Improving Instruction and Assessment in Physical Activity and Sport

ESS 5353	Curriculum and Instruction in Physical Activity and Sport	
ESS 5354	Developmental Sports Education I	
ESS 5355	Developmental Sports Education II	
ESS 5698	Internship in Exercise and Sports Science	

**Prescribed Electives**

Choose 3 hours from the following: 3

AT 5310	Proprioception and Neuromuscular Control in Rehabilitation	
AT 5311	Biomechanics of Musculoskeletal Injury	
BIO 5441	Cellular Physiology	
H ED 5321	Theoretical Foundations of Health Education	
H ED 5330	Topics in Health Education	
NUTR 5302G	Pediatric Obesity	
NUTR 5364	The Science of Nutrition and Exercise	
NUTR 5366	Nutrient Metabolism I	
PHIL 5322	Professional Ethics	
PHIL 5326	Philosophy and Sport	
PHIL 5327	Medical Ethics and Bio-ethics	
PSY 5335	Foundations of Health Psychology	

**Thesis Course Work**

Choose a minimum 6 hours: 6

ESS 5199B	Thesis	
ESS 5299B	Thesis	
ESS 5399A	Thesis	
ESS 5399B	Thesis	
ESS 5599B	Thesis	
ESS 5999B	Thesis	

Total Hours 36

**Non-thesis Option****Exercise Science Course Work**

ESS 5304	Motor Learning and Performance	3
ESS 5309	Biomechanics for Exercise & Sports Science	3
ESS 5346	Research Methods in Health and Human Performance	3
ESS 5356	Applied Statistics in Health and Human Performance	3

Choose 3 hours from the following: 3

ESS 5306	Advanced Exercise Physiology	
ESS 5310	Cardiopulmonary Exercise Physiology	
ESS 5311	Applied Neuromuscular and Skeletal Muscle Physiology	

**Exercise Science Electives** 15

Choose 15 hours from the following:

ESS 5305	Advanced Fitness Assessment and Exercise Prescription	
ESS 5306	Advanced Exercise Physiology	
ESS 5307	Advanced Resistance Training and Conditioning	
ESS 5308	Physical Activity, Exercise, and Epidemiology	
ESS 5310	Cardiopulmonary Exercise Physiology	
ESS 5311	Applied Neuromuscular and Skeletal Muscle Physiology	

ESS 5322	Inclusion and Diversity in Physical Activity and Sport	
ESS 5398	Internship in Exercise and Sports Science	
ESS 5344	Improving Instruction and Assessment in Physical Activity and Sport	
ESS 5353	Curriculum and Instruction in Physical Activity and Sport	
ESS 5354	Developmental Sports Education I	
ESS 5355	Developmental Sports Education II	
ESS 5698	Internship in Exercise and Sports Science	

**Prescribed Electives**

Choose 6 hours from the following: 6

AT 5310	Proprioception and Neuromuscular Control in Rehabilitation	
AT 5311	Biomechanics of Musculoskeletal Injury	
BIO 5441	Cellular Physiology	
H ED 5321	Theoretical Foundations of Health Education	
H ED 5330	Topics in Health Education	
NUTR 5302G	Pediatric Obesity	
NUTR 5364	The Science of Nutrition and Exercise	
NUTR 5366	Nutrient Metabolism I	
PHIL 5322	Professional Ethics	
PHIL 5326	Philosophy and Sport	
PHIL 5327	Medical Ethics and Bio-ethics	
PSY 5335	Foundations of Health Psychology	

Total Hours 36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

**Thesis Proposal**

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members,

uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: ESS

## Courses Offered

### Exercise Science Specialization (ESS)

#### ESS 5101. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### ESS 5117. Laboratory in Exercise Physiology.

Students in this leveling laboratory course perform experiments that highlight the physiological responses to exercise. The course introduces students to basis techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. Prerequisite: BIO 2430 or equivalent. Co-requisite: ESS 5317

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

#### ESS 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### ESS 5201. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships



**ESS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5303. Adapted Physical Education.**

A leveling course designed to provide content knowledge on legal mandates, evidence-based practices, and the characteristics of selected disabilities and their consideration when designing meaningful individualized physical activity experiences to meet the needs of students with disabilities in school settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5304. Motor Learning and Performance.**

This course is designed to provide students the foundation for understanding the principles involved in enhancing motor skill acquisition, and physiological, neurological, and psychological factors affecting motor learning and performance. Inquiry is made into the various motor learning theories and concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5305. Advanced Fitness Assessment and Exercise Prescription.**

This course provides an intensive study of current scientifically based exercise testing and prescription procedures. Students will learn how to evaluate fitness and prescribe exercise through laboratory experiences

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 5306. Advanced Exercise Physiology.**

This advanced course will provide students with a thorough understanding of the acute responses to exercise and the physiological adaptations that occur in response to exercise training. Additional topics to be covered include environmental influences, aging, and sex differences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5307. Advanced Resistance Training and Conditioning.**

This course will include the development, instruction, and evaluation of resistance training exercises and programs for diverse populations and settings. Physiological and mechanical principles related to resistance training will be applied to study human performance, injury prevention, and rehabilitation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5308. Physical Activity, Exercise, and Epidemiology.**

This course will provide students with opportunities to examine the role of physical inactivity in the development of chronic diseases and the benefits of activity in prevention efforts. A special emphasis will be placed on activity assessment and intervention research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5309. Biomechanics for Exercise & Sports Science.**

Review of current research and research techniques in the biomechanics of exercise and sport science. Students will develop skills in reviewing, planning, and conducting biomechanical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5310. Cardiopulmonary Exercise Physiology.**

The course will provide students with a thorough understanding of the structure, function, neural mechanisms, and integrated responses of the human cardiopulmonary system to acute and chronic exercise.

In addition, basic cardiopulmonary pathology, pharmacology, and electrocardiography will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5311. Applied Neuromuscular and Skeletal Muscle Physiology.**

The course will provide students with a thorough understanding of the structure and function of neuromuscular and skeletal muscle physiology. This course will examine mechanisms that regulate skeletal muscle force production and human performance in response to acute and chronic exercise.

In addition, advanced laboratory techniques will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5317. Exercise Physiology.**

This leveling course provides an overview of the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, optimizing human performance through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. Prerequisite: BIO 2430 or equivalent. Corequisite: ESS 5117

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5320. Biomechanics.**

This leveling course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. Prerequisite: BIO 2430 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5322. Inclusion and Diversity in Physical Activity and Sport.**

This course is designed to prepare physical activity and sport educators with knowledge, skills, and strategies to create inclusive learning environments. Culturally responsive teaching strategies that best accommodate the individual needs of children, adolescents, and adults, with diverse ethnic, racial, cultural, socio-economic, physical, and cognitive needs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5323. Physical and Motor Assessment of Children with Disabilities.**

This survey course addresses the selection, administration, and interpretation of commonly used assessment tools and practices for collecting physical and motor performance data on children with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 5329. Motor Learning.**

This leveling course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5344. Improving Instruction and Assessment in Physical Activity and Sport.**

This course is a comprehensive study of pedagogical research examining effective teaching and assessment strategies in physical activity and sport. The use of assessment to improve instruction, learning outcomes, and programming will be emphasized. The course is designed to promote reflective physical activity and sport educators

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5346. Research Methods in Health and Human Performance.**

A study of research methods related to techniques for searching the professional research literature, understanding, planning, and conducting professional research projects, as well as development of skills for writing research proposals related to human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5347. Independent Study in Exercise Science.**

The course allows students to receive individualized instruction while working on a professional project with a supervising faculty member. This course will require students to enhance their writing, research, teaching, and/or presentation skills. Repeatable once for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5351. Measurement & Evaluation in Exercise Science.**

This leveling course examines fundamental principles and techniques of measuring human performance related to Exercise and Sports Science, as well as evaluating and interpreting the results of exercise science and human performance tests in children and adults. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5353. Curriculum and Instruction in Physical Activity and Sport.**

This course examines contemporary evidenced-based curriculum models. It is designed to enable students to develop and implement developmentally appropriate and theoretically based physical activity and sport programs in schools, communities, and athletic venues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5354. Developmental Sports Education I.**

This course is designed to provide sport educators with theory, research, and application strategies to implement developmentally appropriate sports programs. Pedagogical, philosophical, psychosocial, and physiological variables impacting youth participation in sport are examined. Emphasis is placed on promoting positive youth development by applying evidenced-based practices in sports education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5355. Developmental Sports Education II.**

The purpose of this course is to provide sports education professionals with the theoretical and practical information necessary to design and implement a quality sports experience for adolescents and/or adults. This course will focus on a theory to practice approach and will include a bio-psychosocial perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5356. Applied Statistics in Health and Human Performance.**

A study of quantitative statistical methods for planning and conducting experimental and correlational research, as well as techniques for statistical data analysis and interpretation applicable to health and human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5391. Administrative Problems in Competitive Sports.**

This course investigates problems of organization and administration of the various programs in competitive sports for men and women in junior high, secondary, and collegiate levels

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5398. Internship in Exercise and Sports Science.**

This 240-hour internship provides students with work-related experience with children, adults, older individuals, or athletes in exercise settings. Students are provided an opportunity to prescribe and supervise age- and fitness-appropriate exercise programs and perform exercise tests.

Prerequisite: ESS 5306

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis course credit is awarded until the student has completed the entire thesis required in ESS 5399B. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisites: ESS 5346 and ESS 5356

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5624. Principles and Practices for Teaching Physical Education.**

This is a leveling class for graduate students pursuing teaching certification in physical education. Particular emphasis is placed on methods of teaching physical education. This course does not earn graduate credit. Departmental Approval required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5698. Internship in Exercise and Sports Science.**

This full-time internship provides students with a minimum of 480 hours of field experience. Students will work with children, adults, older individuals, or athletes in exercise or health care settings, and prescribe and supervise age and fitness appropriate exercise programs and perform comprehensive health-related assessments

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Education (M.Ed), Major in Health Education

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/hed.html>.

### Degree Requirements

Students pursuing a master of education (M.Ed.) in health education may select a thesis or non-thesis option. The thesis option requires 36 hours of course work (21 in the major, nine in the minor, and six hours of thesis work). The non-thesis option requires 36 hours of course work (21 in the major and 15 in the minor).

As background prerequisites, a health education major is expected to have a minimum of 18 semester hours of health education course work on the bachelor's degree or complete graduate leveling courses.

### Thesis Option

#### Health Education Course Work

H ED 5310	History and Philosophy of Health Education	3
H ED 5315	Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II)	3
H ED 5312	Reading, Writing, and Understanding Research in Health and Wellness Promotion	3

H ED 5321	Theoretical Foundations of Health Education	3
H ED 5346	Literature and Research in Health and Wellness Promotion (Research I)	3

#### Health Education Elective Course Work

Choose 6 hours from the following:		6
H ED 5325	Ethical Principles in Health Education	
H ED 5330	Topics in Health Education	
H ED 5331	Seminar in Current Problems in Health Education	
H ED 5335	Health Education Leadership	
H ED 5340	Community Health Program Planning and Evaluation	
H ED 5347	Independent Study in Health Education Problems	
H ED 5360	Internship in Health Education	

#### Thesis Course Work

Choose a minimum 6 hours		6
H ED 5199B	Thesis	
H ED 5299B	Thesis	
H ED 5399A	Thesis	
H ED 5399B	Thesis	
H ED 5599B	Thesis	
H ED 5999B	Thesis	

#### Minor Course Work

Choose a 9-hour minor (Needs advisor approval)		9
Total Hours		36

### Non-thesis Option

#### Health Education Course Work

H ED 5310	History and Philosophy of Health Education	3
H ED 5315	Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II)	3
H ED 5312	Reading, Writing, and Understanding Research in Health and Wellness Promotion	3
H ED 5321	Theoretical Foundations of Health Education	3
H ED 5346	Literature and Research in Health and Wellness Promotion (Research I)	3

#### Health Education Elective Course Work

Choose 6 hours from the following:		6
H ED 5325	Ethical Principles in Health Education	
H ED 5330	Topics in Health Education	
H ED 5331	Seminar in Current Problems in Health Education	
H ED 5335	Health Education Leadership	
H ED 5340	Community Health Program Planning and Evaluation	
H ED 5347	Independent Study in Health Education Problems	
H ED 5360	Internship in Health Education	

#### Minor Course Work

Choose a 15-hour minor (Needs advisor approval)		15
Total Hours		36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis*

or *Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: H ED (p. 846)

## Courses Offered

### Health Education (H ED)

#### H ED 5101. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the spring semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### H ED 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**H ED 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5310. History and Philosophy of Health Education.**

Intensive study of historical and philosophical contributions to health promotion program development. Current political issues, public health issues, and influential cultural changes are examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5312. Reading, Writing, and Understanding Research in Health and Wellness Promotion.**

This course provides practical experience in technical and professional writing skills. In addition, techniques to read and understand research in health and wellness promotion will be presented. Understanding application of research in school, community, and public health programs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5315. Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II).**

This course focuses on the study of introductory and intermediate statistics and procedures. Emphasis will be placed on the application level of statistics rather than the theoretical and will highlight a) how to apply statistical models, b) how to perform the analyses with social science software, and c) how to interpret findings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5320. Foundation of Public Health.**

In-depth study of past and current public health programs. Department of Health Services personnel will be utilized as guest consultants to familiarize students with various existing health programs for Texas residents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5321. Theoretical Foundations of Health Education.**

This course focuses on the presentation and critical analysis of the role of theory in health education, the description of different theories being utilized in health education research and interventions, and the application of these theories to interventions and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5325. Ethical Principles in Health Education.**

This course provides an in-depth analysis of ethical standards, principles, and behaviors related to the field of health education. Students will explore how to apply, monitor, and model ethical standards in the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5330. Topics in Health Education.**

Topics: 5330A Advanced teaching strategies. 5330B Curriculum development. 5330C Other topics as needed. May be repeated once with a different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5331. Seminar in Current Problems in Health Education.**

Current national and international trends and problems in health that affect the school age group. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5335. Health Education Leadership.**

Structured experiences for developing administrative leadership for health education programs. Included are leadership philosophy, staffing, programming, budgeting, public relations, facilities, and evaluations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5340. Community Health Program Planning and Evaluation.**

Course addresses application of professional competencies in health education and promotion programs. Topics include needs assessment, data gathering techniques, instrument design, data and statistics, interpreting, reporting, and application of findings for program development. Cultural competency and communication will also be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5345. Issues in Human Sexuality Education.**

This course provides for in depth study of sexuality education as a lifelong process of acquiring information and forming healthy attitudes, beliefs, and values regarding sexuality. Students will analyze information and educational resources for implementing and advocating for sexuality instruction through health courses, sexuality education courses, and programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5346. Literature and Research in Health and Wellness Promotion (Research I).**

This course focuses on research models commonly used in health and wellness promotion. Students will learn how to design research studies using accepted research methods in the social sciences. In addition, students will write the introduction, literature review, and methods sections common in health and wellness promotion research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**H ED 5347. Independent Study in Health Education Problems.**

Allows for independent study of one or more problems in health education that hold special interest or offer opportunity for professional improvement and growth. Open on an individual basis by special arrangement with the Division Coordinator. Course graded on a credit (CR) no credit (F) basis. Repeatable once with a different emphasis.

Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5360. Internship in Health Education.**

As an essential element in the preparation of health education specialists, this 240-hour internship provides students with professionally related experience. Students may work with diverse target audiences in health education settings. Internship is approved and supervised by health education graduate coordinator. Course graded on a credit (CR) no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5374. Interprofessional Service Learning in Global Health.**

This advanced course focuses on principles of international health and wellness promotion with global populations. Emphasis is placed on assessing, planning, implementing, and evaluating prevention strategies. Students explore roles of health educators collaborating with providers of health services to diverse populations. The course may be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in H ED 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

# Master of Education (M.Ed), Major in Physical Education

## Major Program

The sports education concentration (master's only or master's and teacher certification through the MAC program) is designed for individuals pursuing careers as professional educator's (physical education teachers and coaches) in elementary, secondary, or higher education settings.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/pe.html>.

## Degree Requirements

Students seeking a master of education (M.Ed.) with a major in physical education may choose to pursue a minor or a concentration in sports education. Students may choose from the thesis (30 hours) or non-thesis (36 hours) option.

A physical education major is expected to have a minimum of 18 semester hours of physical education course work at the undergraduate level, exclusive of physical education activity courses. Students who do not have undergraduate course work in physical education may be required to complete graduate leveling courses.

## Course Work Requirements

### Non-thesis Option with 15-hour Minor

#### Physical Education Course Work

ESS 5305	Advanced Fitness Assessment and Exercise Prescription	3
ESS 5306	Advanced Exercise Physiology	3
ESS 5309	Biomechanics for Exercise & Sports Science	3
ESS 5346	Research Methods in Health and Human Performance	3
ESS 5347	Independent Study in Exercise Science	3
ESS 5356	Applied Statistics in Health and Human Performance	3

Graduate Advisor-approved Elective	3
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#### Minor Course Work

Choose 15-hour minor (Needs advisor approval)	15
<b>Total Hours</b>	<b>36</b>

### Thesis Option with 9-hour Minor

#### Physical Education Course Work

ESS 5306	Advanced Exercise Physiology	3
ESS 5309	Biomechanics for Exercise & Sports Science	3
ESS 5346	Research Methods in Health and Human Performance	3
ESS 5356	Applied Statistics in Health and Human Performance	3

Graduate Advisor-approved Elective	3
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#### Minor Course Work

Choose 9-hour minor (Needs advisor approval)	9
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#### Thesis Course Work



Choose a minimum 6 hours	6
ESS 5199B Thesis	
ESS 5299B Thesis	
ESS 5399A Thesis	
ESS 5399B Thesis	
ESS 5599B Thesis	
ESS 5999B Thesis	
<b>Total Hours</b>	<b>30</b>

### MAC Specialization Option with Teacher Certification

#### Physical Education Course Work

ESS 5346	Research Methods in Health and Human Performance	3
ESS 5356	Applied Statistics in Health and Human Performance	3
ESS 5344	Improving Instruction and Assessment in Physical Activity and Sport	3
ESS 5353	Curriculum and Instruction in Physical Activity and Sport	3
ESS 5347	Independent Study in Exercise Science	3
ESS 5304	Motor Learning and Performance	3
ESS 5322	Inclusion and Diversity in Physical Activity and Sport	3

#### Supporting Course Work

CI 5370	Classroom Management, Discipline, and Legal Issues	3
CI 5314	Human Growth and Development II	3
CI 5324	Systems for Advanced Academics and Talent Development	3

#### Educational Foundations Course Work

CI 5333	The Secondary Curriculum	3
CI 5363	Strategies for Improving Secondary Teaching	3
<b>Total Hours</b>		<b>36</b>

### Sports Education Concentration (Non-thesis option)

#### Required Courses

Choose 3 hours from the following:	3
ESS 5304 Motor Learning and Performance	
ESS 5309 Biomechanics for Exercise & Sports Science	
Choose 3 hours from the following:	3
ESS 5306 Advanced Exercise Physiology	
ESS 5307 Advanced Resistance Training and Conditioning	
ESS 5354 Developmental Sports Education I	3
ESS 5355 Developmental Sports Education II	3
ESS 5344 Improving Instruction and Assessment in Physical Activity and Sport	3
ESS 5346 Research Methods in Health and Human Performance	3
ESS 5356 Applied Statistics in Health and Human Performance	3
REC 5380 Administering Leisure Delivery Systems	3
<b>Prescribed Elective Courses</b>	
Choose 12 hours from the following:	12
CI 5314 Human Growth and Development II	
CI 5330 Multicultural Teaching and Learning	

ESS 5322	Inclusion and Diversity in Physical Activity and Sport	
ESS 5347	Independent Study in Exercise Science	
ESS 5353	Curriculum and Instruction in Physical Activity and Sport	
ESS 5398	Internship in Exercise and Sports Science	
PHIL 5322	Professional Ethics	
PHIL 5326	Philosophy and Sport	
PHIL 5327	Medical Ethics and Bio-ethics	
PHIL 5351	Philosophy of Education	
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	
REC 5330	Applications of Management and Leadership in Leisure Services	
<b>Total Hours</b>		<b>36</b>

### Sports Education Concentration (Thesis option)

#### Required Courses

Choose 3 hours from the following:	3
ESS 5304 Motor Learning and Performance	
ESS 5309 Biomechanics for Exercise & Sports Science	
Choose 3 hours from the following:	3
ESS 5306 Advanced Exercise Physiology	
ESS 5307 Advanced Resistance Training and Conditioning	
ESS 5354 Developmental Sports Education I	3
ESS 5355 Developmental Sports Education II	3
ESS 5344 Improving Instruction and Assessment in Physical Activity and Sport	3
ESS 5346 Research Methods in Health and Human Performance	3
ESS 5356 Applied Statistics in Health and Human Performance	3
REC 5380 Administering Leisure Delivery Systems	3
ESS 5399A Thesis	3
ESS 5399B Thesis	3

#### Prescribed Elective Courses

Choose 6 hours from the following:	6
CI 5314 Human Growth and Development II	
CI 5330 Multicultural Teaching and Learning	
ESS 5322 Inclusion and Diversity in Physical Activity and Sport	
ESS 5347 Independent Study in Exercise Science	
ESS 5353 Curriculum and Instruction in Physical Activity and Sport	
PHIL 5322 Professional Ethics	
PHIL 5326 Philosophy and Sport	
PHIL 5327 Medical Ethics and Bio-ethics	
PHIL 5351 Philosophy of Education	
REC 5350 Legal and Ethical Issues in Recreation and Leisure Services	
REC 5330 Applications of Management and Leadership in Leisure Services	
<b>Total Hours</b>	<b>36</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

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## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis

course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: AT (p. 850), ESS (p. 852), H ED (p. 854), REC (p. 856)

## Courses Offered

### Athletic Training (AT)

#### AT 5101. Graduate Assistant Development.

This course is required of all graduate assistants and provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the spring semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**AT 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5201. Graduate Assistant Development.**

This course is required of all graduate assistants and provides in-service and planned periodic evaluations of instructional responsibilities.

Graduate assistants are required to register for this course in the fall semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**AT 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5302. Special Topics in Athletic Training.**

This course is designed to educate students in the scientific process and develop an in-depth understanding of the research process in Athletic Training

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5303. Seminar in Athletic Training.**

Current trends in athletic and physical education concerning the care and prevention of injuries with special emphasis on therapeutic and rehabilitation techniques. Taping and bandaging will be practiced in a laboratory situation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5307. Bioenergetics of Exercise and Rehabilitation.**

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in physiological basis of muscular, respiratory, cardiovascular, and nervous systems in the rehabilitation of all athletic injuries. Must be admitted to the MS in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5308. Therapeutic Exercise and Rehabilitation.**

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in the rehabilitation setting, as well as to impart knowledge pertaining to the physiological effects, indications, contraindications and applications of therapeutic exercise in the rehabilitation of all athletic injuries. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5310. Proprioception and Neuromuscular Control in Rehabilitation.**

This course provides for an advanced study of the concepts, theories, and current research related to proprioception, postural stability, and neuromuscular control as applied to the prevention, diagnosis, and clinical management of sport-related musculoskeletal injuries and concussions. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5311. Biomechanics of Musculoskeletal Injury.**

This course focuses on the application of biomechanical principles to the pathoetiology, diagnosis, and physiological capacity for healing of injuries to bone, ligament, tendon, cartilage, and other human tissues, with an emphasis on current injury research. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5312. Evidence-Based Practice in Sports Medicine.**

This course is designed to provide students with advanced study in the elements of evidence-based practice in sports medicine with focus on the role of accessing, retrieving, and critically appraising evidence to answer clinical questions in patient care. Must be admitted to the M.S. in Athletic Training Program or instructor approval required. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5318. Therapeutic Evaluation and Intervention.**

This course explores the scientific bases of therapeutic musculoskeletal exercise and neuromuscular evaluative techniques in the rehabilitation process. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5347. Independent Study in Athletic Training.**

This course may be taken by a student who desires to work on a research problem or investigation in Athletic Training. The student gathers and analyzes pertinent data and submits a report of the results of the research. Repeatable once for credit. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in AT 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Exercise Science Specialization (ESS)****ESS 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ESS 5117. Laboratory in Exercise Physiology.**

Students in this leveling laboratory course perform experiments that highlight the physiological responses to exercise. The course introduces students to basis techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. Prerequisite: BIO 2430 or equivalent. Co-requisite: ESS 5317

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ESS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5303. Adapted Physical Education.**

A leveling course designed to provide content knowledge on legal mandates, evidence-based practices, and the characteristics of selected disabilities and their consideration when designing meaningful individualized physical activity experiences to meet the needs of students with disabilities in school settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5304. Motor Learning and Performance.**

This course is designed to provide students the foundation for understanding the principles involved in enhancing motor skill acquisition, and physiological, neurological, and psychological factors affecting motor learning and performance. Inquiry is made into the various motor learning theories and concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5305. Advanced Fitness Assessment and Exercise Prescription.**

This course provides an intensive study of current scientifically based exercise testing and prescription procedures. Students will learn how to evaluate fitness and prescribe exercise through laboratory experiences

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 5306. Advanced Exercise Physiology.**

This advanced course will provide students with a thorough understanding of the acute responses to exercise and the physiological adaptations that occur in response to exercise training. Additional topics to be covered include environmental influences, aging, and sex differences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5307. Advanced Resistance Training and Conditioning.**

This course will include the development, instruction, and evaluation of resistance training exercises and programs for diverse populations and settings. Physiological and mechanical principles related to resistance training will be applied to study human performance, injury prevention, and rehabilitation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5308. Physical Activity, Exercise, and Epidemiology.**

This course will provide students with opportunities to examine the role of physical inactivity in the development of chronic diseases and the benefits of activity in prevention efforts. A special emphasis will be placed on activity assessment and intervention research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5309. Biomechanics for Exercise & Sports Science.**

Review of current research and research techniques in the biomechanics of exercise and sport science. Students will develop skills in reviewing, planning, and conducting biomechanical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 5310. Cardiopulmonary Exercise Physiology.**

The course will provide students with a thorough understanding of the structure, function, neural mechanisms, and integrated responses of the human cardiopulmonary system to acute and chronic exercise. In addition, basic cardiopulmonary pathology, pharmacology, and electrocardiography will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5311. Applied Neuromuscular and Skeletal Muscle Physiology.**

The course will provide students with a thorough understanding of the structure and function of neuromuscular and skeletal muscle physiology. This course will examine mechanisms that regulate skeletal muscle force production and human performance in response to acute and chronic exercise. In addition, advanced laboratory techniques will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5317. Exercise Physiology.**

This leveling course provides an overview of the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, optimizing human performance through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. Prerequisite: BIO 2430 or equivalent. Corequisite: ESS 5117

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5320. Biomechanics.**

This leveling course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. Prerequisite: BIO 2430 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5322. Inclusion and Diversity in Physical Activity and Sport.**

This course is designed to prepare physical activity and sport educators with knowledge, skills, and strategies to create inclusive learning environments. Culturally responsive teaching strategies that best accommodate the individual needs of children, adolescents, and adults, with diverse ethnic, racial, cultural, socio-economic, physical, and cognitive needs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5323. Physical and Motor Assessment of Children with Disabilities.**

This survey course addresses the selection, administration, and interpretation of commonly used assessment tools and practices for collecting physical and motor performance data on children with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5329. Motor Learning.**

This leveling course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5344. Improving Instruction and Assessment in Physical Activity and Sport.**

This course is a comprehensive study of pedagogical research examining effective teaching and assessment strategies in physical activity and sport. The use of assessment to improve instruction, learning outcomes, and programming will be emphasized. The course is designed to promote reflective physical activity and sport educators

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5346. Research Methods in Health and Human Performance.**

A study of research methods related to techniques for searching the professional research literature, understanding, planning, and conducting professional research projects, as well as development of skills for writing research proposals related to human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5347. Independent Study in Exercise Science.**

The course allows students to receive individualized instruction while working on a professional project with a supervising faculty member. This course will require students to enhance their writing, research, teaching, and/or presentation skills. Repeatable once for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5351. Measurement & Evaluation in Exercise Science.**

This leveling course examines fundamental principles and techniques of measuring human performance related to Exercise and Sports Science, as well as evaluating and interpreting the results of exercise science and human performance tests in children and adults. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5353. Curriculum and Instruction in Physical Activity and Sport.**

This course examines contemporary evidenced-based curriculum models. It is designed to enable students to develop and implement developmentally appropriate and theoretically based physical activity and sport programs in schools, communities, and athletic venues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 5354. Developmental Sports Education I.**

This course is designed to provide sport educators with theory, research, and application strategies to implement developmentally appropriate sports programs. Pedagogical, philosophical, psychosocial, and physiological variables impacting youth participation in sport are examined. Emphasis is placed on promoting positive youth development by applying evidenced-based practices in sports education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5355. Developmental Sports Education II.**

The purpose of this course is to provide sports education professionals with the theoretical and practical information necessary to design and implement a quality sports experience for adolescents and/or adults. This course will focus on a theory to practice approach and will include a bio-psychosocial perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5356. Applied Statistics in Health and Human Performance.**

A study of quantitative statistical methods for planning and conducting experimental and correlational research, as well as techniques for statistical data analysis and interpretation applicable to health and human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5391. Administrative Problems in Competitive Sports.**

This course investigates problems of organization and administration of the various programs in competitive sports for men and women in junior high, secondary, and collegiate levels

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5398. Internship in Exercise and Sports Science.**

This 240-hour internship provides students with work-related experience with children, adults, older individuals, or athletes in exercise settings. Students are provided an opportunity to prescribe and supervise age- and fitness-appropriate exercise programs and perform exercise tests.

Prerequisite: ESS 5306

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis course credit is awarded until the student has completed the entire thesis required in ESS 5399B. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisites: ESS 5346 and ESS 5356

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5624. Principles and Practices for Teaching Physical Education.**

This is a leveling class for graduate students pursuing teaching certification in physical education. Particular emphasis is placed on methods of teaching physical education. This course does not earn graduate credit. Departmental Approval required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5698. Internship in Exercise and Sports Science.**

This full-time internship provides students with a minimum of 480 hours of field experience. Students will work with children, adults, older individuals, or athletes in exercise or health care settings, and prescribe and supervise age and fitness appropriate exercise programs and perform comprehensive health-related assessments

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Health Education (H ED)****H ED 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the spring semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**H ED 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**H ED 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5310. History and Philosophy of Health Education.**

Intensive study of historical and philosophical contributions to health promotion program development. Current political issues, public health issues, and influential cultural changes are examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5312. Reading, Writing, and Understanding Research in Health and Wellness Promotion.**

This course provides practical experience in technical and professional writing skills. In addition, techniques to read and understand research in health and wellness promotion will be presented. Understanding application of research in school, community, and public health programs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5315. Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II).**

This course focuses on the study of introductory and intermediate statistics and procedures. Emphasis will be placed on the application level of statistics rather than the theoretical and will highlight a) how to apply statistical models, b) how to perform the analyses with social science software, and c) how to interpret findings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5320. Foundation of Public Health.**

In-depth study of past and current public health programs. Department of Health Services personnel will be utilized as guest consultants to familiarize students with various existing health programs for Texas residents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5321. Theoretical Foundations of Health Education.**

This course focuses on the presentation and critical analysis of the role of theory in health education, the description of different theories being utilized in health education research and interventions, and the application of these theories to interventions and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5325. Ethical Principles in Health Education.**

This course provides an in-depth analysis of ethical standards, principles, and behaviors related to the field of health education. Students will explore how to apply, monitor, and model ethical standards in the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5330. Topics in Health Education.**

Topics: 5330A Advanced teaching strategies. 5330B Curriculum development. 5330C Other topics as needed. May be repeated once with a different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5331. Seminar in Current Problems in Health Education.**

Current national and international trends and problems in health that affect the school age group. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5335. Health Education Leadership.**

Structured experiences for developing administrative leadership for health education programs. Included are leadership philosophy, staffing, programming, budgeting, public relations, facilities, and evaluations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5340. Community Health Program Planning and Evaluation.**

Course addresses application of professional competencies in health education and promotion programs. Topics include needs assessment, data gathering techniques, instrument design, data and statistics, interpreting, reporting, and application of findings for program development. Cultural competency and communication will also be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5345. Issues in Human Sexuality Education.**

This course provides for in depth study of sexuality education as a lifelong process of acquiring information and forming healthy attitudes, beliefs, and values regarding sexuality. Students will analyze information and educational resources for implementing and advocating for sexuality instruction through health courses, sexuality education courses, and programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5346. Literature and Research in Health and Wellness Promotion (Research I).**

This course focuses on research models commonly used in health and wellness promotion. Students will learn how to design research studies using accepted research methods in the social sciences. In addition, students will write the introduction, literature review, and methods sections common in health and wellness promotion research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5347. Independent Study in Health Education Problems.**

Allows for independent study of one or more problems in health education that hold special interest or offer opportunity for professional improvement and growth. Open on an individual basis by special arrangement with the Division Coordinator. Course graded on a credit (CR) no credit (F) basis. Repeatable once with a different emphasis.

Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5360. Internship in Health Education.**

As an essential element in the preparation of health education specialists, this 240-hour internship provides students with professionally related experience. Students may work with diverse target audiences in health education settings. Internship is approved and supervised by health education graduate coordinator. Course graded on a credit (CR) no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5374. Interprofessional Service Learning in Global Health.**

This advanced course focuses on principles of international health and wellness promotion with global populations. Emphasis is placed on assessing, planning, implementing, and evaluating prevention strategies. Students explore roles of health educators collaborating with providers of health services to diverse populations. The course may be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in H ED 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Recreation (REC)****REC 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in Health and Human Performance. It provides regular in-service and planned evaluations of instructional responsibilities. Registration is required of Graduate Teaching Assistants in the spring semester of employment. This course does not earn graduate credit.

Graded on credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**REC 5199B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**REC 5299B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5310. Philosophical Foundations of Recreation & Leisure Services.**

To introduce and explore the meanings of leisure, leisure behavior, and leisure services from historical, philosophical, sociological, and political perspectives. Students will develop a philosophical view of leisure based on exploration of the history of leisure and the leisure profession as well as consideration of the nature of the individual and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5318D. Technology, Leisure & Recreation: A critical survey.**

Modern society has increasingly been redefined by practices contextualized by leisure/recreation and embedded in the essence of leisure. Another definer of modern life is technology. This course is a critical survey of the confluence of these two domains, with new meanings made evident. Technology topics may vary. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318E. Physical environment, life and leisure I: Built public spaces and the leisure experience.**

The physical environment is not only a container of human action, it is also itself experienced by people. This course will examine how the human-made environment is a source of meaning and experience and suggest, consequently, how it can be modeled to facilitate preferences by users. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318L. Outdoor Recreation Leadership and Administration.**

Students will become knowledgeable of the theoretical foundations of outdoor and adventure recreation programming and sustainable ecotourism. Principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments will be studied. Leave No Trace competency and outdoor skills will be analyzed and demonstrated in outdoor settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5318M. Programming for Active Older Adults.**

Individuals who work in leisure and aging focus on enhancing the quality of life for individuals aged 55 and over. The population of persons over the age of 65 is growing rapidly and in the US the 'older adult' population now includes members from three distinct age cohort group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5320A. Leisure Enhancement in Later Life Dementia Studies in the United Kingdom - Study Abroad.**

This study abroad course focuses on selected topics in Therapeutic Recreation in the UK (London, England/Stirling, Scotland) and ties in dementia care site observations and training with St. Christopher's Hospice and Stirling University Dementia Studies program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5321. Issues and Trends in Recreation and Leisure Services.**

A seminar style course where students investigate current events on the provision of services. This course will address that need

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5325. Philosophical Foundations of Therapeutic Recreation.**

Course covers therapeutic recreation practices, history of the profession, current trends, and various disabilities and disorders across the lifespan. Through field-based activities, students will develop skills and abilities necessary to provide services to persons with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5326. Advanced Practices and Interventions in Therapeutic Recreation.**

This course addresses advanced practices and intervention strategies for provision of services to persons with disabilities. Students will gain an understanding of theoretical models and learn how to apply these models when analyzing activity selection and documenting client outcomes.

Prerequisite: REC 5325 or REC 5318F

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5327. Advanced Assessment and Documentation in Therapeutic Recreation.**

This course provides for the study of advanced assessments and documentation related to persons with disabilities. Students will gain an understanding of standardized assessments in therapeutic recreation, including composition, implementation, and evaluation of results.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5328. Advanced Principles of Therapeutic Recreation.**

In this course students apply advanced principles of therapeutic recreation related to persons with psychological disorders and physical disabilities. The course engages students in advanced case study design and implementation of treatment plan utilizing a transdisciplinary approach to rehabilitation. Prerequisites: REC 5318F or REC 5325 and REC 5318G or REC 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5329. Therapeutic Recreation in Psychiatric Settings.**

This course applies an advanced approach of Leisure Education (LE) in the rehabilitation process for persons with psychiatric disorders. Students will have the opportunity in a field-based setting to develop skills and abilities necessary to implement LE in treating persons.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5330. Applications of Management and Leadership in Leisure Services.**

This course provides an exploration of management issues within recreation administration with an emphasis on the role of the leader as a conduit for effectiveness. Content will include theories and philosophies, processes, accountability, strategic planning, and conflict resolution applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. May be repeated for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**REC 5338. Internship in Therapeutic Recreation.**

This course provides students the opportunity to complete an intensive, on-site internship under the supervision of a Nationally Certified Therapeutic Recreation Specialist. Students will complete 480 hours in a clinical or community setting. Prerequisite: All master-level coursework required by degree plan and National Council for Therapeutic Recreation Certification guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5340. Social Psychology of Recreation and Leisure.**

To provide an introduction and overview of the personal, social and social-psychological contexts of leisure; utilizing current literature the course will focus on examining leisure and recreation behavior from psychological, sociological and social-psychological constructs that are contributing to a contemporary, interdisciplinary understanding of the leisure phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5346. Literature and Research.**

Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5350. Legal and Ethical Issues in Recreation and Leisure Services.**

A seminar style course that focuses on legal and ethical issues related to recreation and leisure services. Tort law, participant rights, accessibility, credentialing, and others are topics to be addressed in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5360. Applications of Marketing and Finance in Recreation.**

This course is a study of marketing and financial concepts, principles, and techniques as they relate to recreation and leisure delivery systems. These include full cost accounting, pricing, financial management, distribution, promotional techniques, marketing plans, alternative funding and proposals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5380. Administering Leisure Delivery Systems.**

This course content provides students with program development and administration tools developed and tested within the recreation industry. Topics may include the exploration of programming and organizational theory, administrative processes, and the application of the organizational principles to the recreation service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in REC 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**REC 5399B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**REC 5599B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**REC 5999B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Science in Recreation and Leisure Services (M.S.R.L.S.), Recreation Management

### Major Program

The master of science in recreation and leisure services (M.S.R.L.S.) program is designed to prepare administrators, supervisors, educators, consultants, and researchers to assist people toward richer lives through leisure experiences. Recreation management encompasses the administration and supervision of recreation and leisure services. Recreational professionals seeking course work for certification as Certified Park & Recreation Professional (CPRP) would enroll in this option.

A recreation and leisure services major is expected to have a minimum of 18 semester hours of recreation course work on the bachelor's degree. Students in the recreation management major must have undergraduate hours in marketing and management and demonstrate competency in those areas.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/rmgt.html>.

### Degree Requirements

M.S.R.L.S. students may pursue a thesis (30 hours) or non-thesis (36 hours) option.

### Course Work Requirements

#### Non-thesis Option

REC 5310	Philosophical Foundations of Recreation & Leisure Services	3
REC 5340	Social Psychology of Recreation and Leisure	3
REC 5346	Literature and Research	3
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	3



REC 5380	Administering Leisure Delivery Systems	3
REC 5330	Applications of Management and Leadership in Leisure Services	3
REC 5360	Applications of Marketing and Finance in Recreation	3
Prescribed Elective Courses (Choose 12 hours)		12
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5329B	Communication and Negotiation	
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	
EDCL 5345	Understanding People: Professional Development	
GEO 5312	Managing Urbanization	
GEO 5319	Seminar in Nature and Heritage Tourism	
GEO 5339	The Geography of Land Management	
MC 5317	Advanced Online Media	
MC 5308	Seminar in Advertising and Public Relations	
MGT 5314	Organizational Behavior and Theory	
ESS 5391	Administrative Problems in Competitive Sports	
REC 5321	Issues and Trends in Recreation and Leisure Services	
SOCI 5316	Seminar in Deviation and Social Problems	
PA 5310	Public Finance Administration	
PA 5320	Organizational Theory, Change, and Behavior	
SOCI 5320	Seminar in Demography	
SOCI 5359	Seminar in Drugs and Society	
SOCI 5353	Seminar in the Community	
SOCI 5370	Seminar in Multi-Cultural Relations	
REC 5337	Independent Study in Recreational Administration	
Total Hours		33

### Thesis Option

REC 5310	Philosophical Foundations of Recreation & Leisure Services	3
REC 5340	Social Psychology of Recreation and Leisure	3
REC 5346	Literature and Research	3
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	3
REC 5380	Administering Leisure Delivery Systems	3
REC 5330	Applications of Management and Leadership in Leisure Services	3
REC 5360	Applications of Marketing and Finance in Recreation	3
Prescribed Elective Courses (Choose 3 hours)		3
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5329B	Communication and Negotiation	
EDCL 5339	Understanding Self: Developing a Personal Vision of Leadership	
EDCL 5345	Understanding People: Professional Development	
GEO 5312	Managing Urbanization	
GEO 5319	Seminar in Nature and Heritage Tourism	
GEO 5339	The Geography of Land Management	
MC 5317	Advanced Online Media	

MC 5308	Seminar in Advertising and Public Relations	
MGT 5314	Organizational Behavior and Theory	
ESS 5391	Administrative Problems in Competitive Sports	
REC 5321	Issues and Trends in Recreation and Leisure Services	
REC 5337	Independent Study in Recreational Administration	
SOCI 5316	Seminar in Deviation and Social Problems	
SOCI 5320	Seminar in Demography	
PA 5310	Public Finance Administration	
PA 5320	Organizational Theory, Change, and Behavior	
SOCI 5359	Seminar in Drugs and Society	
SOCI 5353	Seminar in the Community	
SOCI 5370	Seminar in Multi-Cultural Relations	
Thesis Course Work (Choose a minimum 6 hours)		6
REC 5199B	Thesis	
REC 5299B	Thesis	
REC 5399A	Thesis	
REC 5399B	Thesis	
REC 5599B	Thesis	
REC 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A

for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to

be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: REC

## Courses Offered Recreation (REC)

### REC 5101. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in Health and Human Performance. It provides regular in-service and planned evaluations of instructional responsibilities. Registration is required of Graduate Teaching Assistants in the spring semester of employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### REC 5199B. Thesis.

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### REC 5201. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### REC 5299B. Thesis.

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### REC 5310. Philosophical Foundations of Recreation & Leisure Services.

To introduce and explore the meanings of leisure, leisure behavior, and leisure services from historical, philosophical, sociological, and political perspectives. Students will develop a philosophical view of leisure based on exploration of the history of leisure and the leisure profession as well as consideration of the nature of the individual and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5318D. Technology, Leisure & Recreation: A critical survey.**

Modern society has increasingly been redefined by practices contextualized by leisure/recreation and embedded in the essence of leisure. Another definer of modern life is technology. This course is a critical survey of the confluence of these two domains, with new meanings made evident. Technology topics may vary. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318E. Physical environment, life and leisure I: Built public spaces and the leisure experience.**

The physical environment is not only a container of human action, it is also itself experienced by people. This course will examine how the human-made environment is a source of meaning and experience and suggest, consequently, how it can be modeled to facilitate preferences by users. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318L. Outdoor Recreation Leadership and Administration.**

Students will become knowledgeable of the theoretical foundations of outdoor and adventure recreation programming and sustainable ecotourism. Principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments will be studied. Leave No Trace competency and outdoor skills will be analyzed and demonstrated in outdoor settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5318M. Programming for Active Older Adults.**

Individuals who work in leisure and aging focus on enhancing the quality of life for individuals aged 55 and over. The population of persons over the age of 65 is growing rapidly and in the US the 'older adult' population now includes members from three distinct age cohort group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5320A. Leisure Enhancement in Later Life Dementia Studies in the United Kingdom - Study Abroad.**

This study abroad course focuses on selected topics in Therapeutic Recreation in the UK (London, England/Stirling, Scotland) and ties in dementia care site observations and training with St. Christopher's Hospice and Stirling University Dementia Studies program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5321. Issues and Trends in Recreation and Leisure Services.**

A seminar style course where students investigate current events on the provision of services. This course will address that need

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5325. Philosophical Foundations of Therapeutic Recreation.**

Course covers therapeutic recreation practices, history of the profession, current trends, and various disabilities and disorders across the lifespan. Through field-based activities, students will develop skills and abilities necessary to provide services to persons with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5326. Advanced Practices and Interventions in Therapeutic Recreation.**

This course addresses advanced practices and intervention strategies for provision of services to persons with disabilities. Students will gain an understanding of theoretical models and learn how to apply these models when analyzing activity selection and documenting client outcomes.

Prerequisite: REC 5325 or REC 5318F

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5327. Advanced Assessment and Documentation in Therapeutic Recreation.**

This course provides for the study of advanced assessments and documentation related to persons with disabilities. Students will gain an understanding of standardized assessments in therapeutic recreation, including composition, implementation, and evaluation of results.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5328. Advanced Principles of Therapeutic Recreation.**

In this course students apply advanced principles of therapeutic recreation related to persons with psychological disorders and physical disabilities. The course engages students in advanced case study design and implementation of treatment plan utilizing a transdisciplinary approach to rehabilitation. Prerequisites: REC 5318F or REC 5325 and REC 5318G or REC 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5329. Therapeutic Recreation in Psychiatric Settings.**

This course applies an advanced approach of Leisure Education (LE) in the rehabilitation process for persons with psychiatric disorders. Students will have the opportunity in a field-based setting to develop skills and abilities necessary to implement LE in treating persons.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5330. Applications of Management and Leadership in Leisure Services.**

This course provides an exploration of management issues within recreation administration with an emphasis on the role of the leader as a conduit for effectiveness. Content will include theories and philosophies, processes, accountability, strategic planning, and conflict resolution applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. May be repeated for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5338. Internship in Therapeutic Recreation.**

This course provides students the opportunity to complete an intensive, on-site internship under the supervision of a Nationally Certified Therapeutic Recreation Specialist. Students will complete 480 hours in a clinical or community setting. Prerequisite: All master-level coursework required by degree plan and National Council for Therapeutic Recreation Certification guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5340. Social Psychology of Recreation and Leisure.**

To provide an introduction and overview of the personal, social and social-psychological contexts of leisure; utilizing current literature the course will focus on examining leisure and recreation behavior from psychological, sociological and social-psychological constructs that are contributing to a contemporary, interdisciplinary understanding of the leisure phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5346. Literature and Research.**

Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5350. Legal and Ethical Issues in Recreation and Leisure Services.**

A seminar style course that focuses on legal and ethical issues related to recreation and leisure services. Tort law, participant rights, accessibility, credentialing, and others are topics to be addressed in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5360. Applications of Marketing and Finance in Recreation.**

This course is a study of marketing and financial concepts, principles, and techniques as they relate to recreation and leisure delivery systems. These include full cost accounting, pricing, financial management, distribution, promotional techniques, marketing plans, alternative funding and proposals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5380. Administering Leisure Delivery Systems.**

This course content provides students with program development and administration tools developed and tested within the recreation industry. Topics may include the exploration of programming and organizational theory, administrative processes, and the application of the organizational principles to the recreation service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in REC 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5399B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5599B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5999B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science in Recreation and Leisure Services (M.S.R.L.S.), Therapeutic Recreation

### Major Program

The master of science in recreation and leisure services (M.S.R.L.S.) program is designed to prepare administrators, supervisors, educators, consultants, and researchers to assist people toward richer lives through leisure experiences. Therapeutic recreation focuses on enabling individuals with special needs to experience the same leisure options as able-bodied individuals through the use of recreation as a treatment and education modality. Individuals seeking to become a Certified Therapeutic Recreation Specialist (CTRS) would enroll in this option.

A recreation and leisure services major is expected to have a minimum of 18 semester hours of recreation course work on the bachelor's degree. Students in the recreation management major must have undergraduate hours in marketing and management, and demonstrate competency in those areas.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/rtmgt.html>.

### Degree Requirements

M.S.R.L.S. students may pursue a thesis (30 hours) or non-thesis (36 hours) option.

### Course Work Requirements

#### Non-thesis Option

REC 5340	Social Psychology of Recreation and Leisure	3
REC 5346	Literature and Research	3
REC 5338	Internship in Therapeutic Recreation	3
REC 5325	Philosophical Foundations of Therapeutic Recreation	3



REC 5326	Advanced Practices and Interventions in Therapeutic Recreation	3
REC 5327	Advanced Assessment and Documentation in Therapeutic Recreation	3
REC 5328	Advanced Principles of Therapeutic Recreation	3
REC 5329	Therapeutic Recreation in Psychiatric Settings	3
Recreation Electives (Choose 6 hours)		6
REC 5310	Philosophical Foundations of Recreation & Leisure Services	
REC 5330	Applications of Management and Leadership in Leisure Services	
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	
REC 5360	Applications of Marketing and Finance in Recreation	
Prescribed Electives (Choose 6 hours)		6
ESS 5322	Inclusion and Diversity in Physical Activity and Sport	
PSY 5310	Advanced Abnormal Psychology	
SOCI 5316	Seminar in Deviation and Social Problems	
SOCI 5337	Seminar in the Family	
SOCI 5343	Seminar in Criminology	
SOCI 5363	Seminar in Medical Sociology	
SPED 5310	Selected Topics in Special Education	
SPED 5325	Development Perspectives of the Mildly Disabled	
SPED 5326	Educating Students with Mild Disabilities	
SPED 5327	Educating Students with Autism and Other Developmental Disabilities	
SPED 5360	Survey of Exceptionality	
Total Hours		36

### Thesis Option

REC 5310	Philosophical Foundations of Recreation & Leisure Services	3
REC 5346	Literature and Research	3
REC 5340	Social Psychology of Recreation and Leisure	3
ESS 5356	Applied Statistics in Health and Human Performance	3
REC 5325	Philosophical Foundations of Therapeutic Recreation	3
REC 5328	Advanced Principles of Therapeutic Recreation	3
Prescribed Elective Courses (Choose 6 hours)		6
REC 5321	Issues and Trends in Recreation and Leisure Services	
REC 5330	Applications of Management and Leadership in Leisure Services	
REC 5337	Independent Study in Recreational Administration	
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	
REC 5380	Administering Leisure Delivery Systems	
Thesis Course Work (Choose a minimum 6 hours)		6
REC 5199B	Thesis	
REC 5299B	Thesis	
REC 5399A	Thesis	
REC 5399B	Thesis	

REC 5599B	Thesis	
REC 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the



thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health and Human Performance: REC (p. 864)

## Courses Offered

### Recreation (REC)

#### REC 5101. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in Health and Human Performance. It provides regular in-service and planned evaluations of instructional responsibilities. Registration is required of Graduate Teaching Assistants in the spring semester of employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### REC 5199B. Thesis.

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### REC 5201. Graduate Assistant Development.

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### REC 5299B. Thesis.

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### REC 5310. Philosophical Foundations of Recreation & Leisure Services.

To introduce and explore the meanings of leisure, leisure behavior, and leisure services from historical, philosophical, sociological, and political perspectives. Students will develop a philosophical view of leisure based on exploration of the history of leisure and the leisure profession as well as consideration of the nature of the individual and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### REC 5318D. Technology, Leisure & Recreation: A critical survey.

Modern society has increasingly been redefined by practices contextualized by leisure/recreation and embedded in the essence of leisure. Another definer of modern life is technology. This course is a critical survey of the confluence of these two domains, with new meanings made evident. Technology topics may vary. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### REC 5318E. Physical environment, life and leisure I: Built public spaces and the leisure experience.

The physical environment is not only a container of human action, it is also itself experienced by people. This course will examine how the human-made environment is a source of meaning and experience and suggest, consequently, how it can be modeled to facilitate preferences by users. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318L. Outdoor Recreation Leadership and Administration.**

Students will become knowledgeable of the theoretical foundations of outdoor and adventure recreation programming and sustainable ecotourism. Principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments will be studied. Leave No Trace competency and outdoor skills will be analyzed and demonstrated in outdoor settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5318M. Programming for Active Older Adults.**

Individuals who work in leisure and aging focus on enhancing the quality of life for individuals aged 55 and over. The population of persons over the age of 65 is growing rapidly and in the US the 'older adult' population now includes members from three distinct age cohort group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5320A. Leisure Enhancement in Later Life Dementia Studies in the United Kingdom - Study Abroad.**

This study abroad course focuses on selected topics in Therapeutic Recreation in the UK (London, England/Stirling, Scotland) and ties in dementia care site observations and training with St. Christopher's Hospice and Stirling University Dementia Studies program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5321. Issues and Trends in Recreation and Leisure Services.**

A seminar style course where students investigate current events on the provision of services. This course will address that need

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5325. Philosophical Foundations of Therapeutic Recreation.**

Course covers therapeutic recreation practices, history of the profession, current trends, and various disabilities and disorders across the lifespan. Through field-based activities, students will develop skills and abilities necessary to provide services to persons with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5326. Advanced Practices and Interventions in Therapeutic Recreation.**

This course addresses advanced practices and intervention strategies for provision of services to persons with disabilities. Students will gain an understanding of theoretical models and learn how to apply these models when analyzing activity selection and documenting client outcomes.

Prerequisite: REC 5325 or REC 5318F

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5327. Advanced Assessment and Documentation in Therapeutic Recreation.**

This course provides for the study of advanced assessments and documentation related to persons with disabilities. Students will gain an understanding of standardized assessments in therapeutic recreation, including composition, implementation, and evaluation of results.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5328. Advanced Principles of Therapeutic Recreation.**

In this course students apply advanced principles of therapeutic recreation related to persons with psychological disorders and physical disabilities. The course engages students in advanced case study design and implementation of treatment plan utilizing a transdisciplinary approach to rehabilitation. Prerequisites: REC 5318F or REC 5325 and REC 5318G or REC 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5329. Therapeutic Recreation in Psychiatric Settings.**

This course applies an advanced approach of Leisure Education (LE) in the rehabilitation process for persons with psychiatric disorders. Students will have the opportunity in a field-based setting to develop skills and abilities necessary to implement LE in treating persons.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5330. Applications of Management and Leadership in Leisure Services.**

This course provides an exploration of management issues within recreation administration with an emphasis on the role of the leader as a conduit for effectiveness. Content will include theories and philosophies, processes, accountability, strategic planning, and conflict resolution applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. May be repeated for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5338. Internship in Therapeutic Recreation.**

This course provides students the opportunity to complete an intensive, on-site internship under the supervision of a Nationally Certified Therapeutic Recreation Specialist. Students will complete 480 hours in a clinical or community setting. Prerequisite: All master-level coursework required by degree plan and National Council for Therapeutic Recreation Certification guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5340. Social Psychology of Recreation and Leisure.**

To provide an introduction and overview of the personal, social and social-psychological contexts of leisure; utilizing current literature the course will focus on examining leisure and recreation behavior from psychological, sociological and social-psychological constructs that are contributing to a contemporary, interdisciplinary understanding of the leisure phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5346. Literature and Research.**

Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5350. Legal and Ethical Issues in Recreation and Leisure Services.**

A seminar style course that focuses on legal and ethical issues related to recreation and leisure services. Tort law, participant rights, accessibility, credentialing, and others are topics to be addressed in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5360. Applications of Marketing and Finance in Recreation.**

This course is a study of marketing and financial concepts, principles, and techniques as they relate to recreation and leisure delivery systems. These include full cost accounting, pricing, financial management, distribution, promotional techniques, marketing plans, alternative funding and proposals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5380. Administering Leisure Delivery Systems.**

This course content provides students with program development and administration tools developed and tested within the recreation industry. Topics may include the exploration of programming and organizational theory, administrative processes, and the application of the organizational principles to the recreation service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in REC 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5399B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5599B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5999B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Exercise Science

ESS 5305	Advanced Fitness Assessment and Exercise Prescription	3
ESS 5306	Advanced Exercise Physiology	3
ESS 5307	Advanced Resistance Training and Conditioning	3
ESS 5308	Physical Activity, Exercise, and Epidemiology	3
Total Hours		12

## Minor in Health Education

H ED 5310	History and Philosophy of Health Education	3
H ED 5346	Literature and Research in Health and Wellness Promotion (Research I)	3
H ED Electives (Chosen in consultation with the graduate advisor)		9
Total Hours		15

## Minor in Physical Education

ESS 5346	Research Methods in Health and Human Performance	3
ESS 5353	Curriculum and Instruction in Physical Activity and Sport	3
PE or ESS Electives (Chosen in consultation with the graduate advisor)		9
Total Hours		15

## Minor in Recreation and Leisure Services

REC 5310	Philosophical Foundations of Recreation & Leisure Services	3
REC 5340	Social Psychology of Recreation and Leisure	3
REC 5350	Legal and Ethical Issues in Recreation and Leisure Services	3
REC 5380	Administering Leisure Delivery Systems	3
Total Hours		12

## College of Fine Arts and Communication

**Dean**

John Fleming, Ph.D.  
Old Main Building Room 112  
T: 512.245.2308 F: 512.245.8386  
<http://www.finearts.txstate.edu/>

**Associate Dean**

Mary Ellen Cavitt, Ph.D.

**Associate Dean**

Laurie H. Fluker, Ph.D.

**Associate Dean**

Joey Martin, D.M.A.

**Department Chairs/School Directors**

Art and Design—Michael L. Niblett, M.F.A.  
Communication Studies—Steven Beebe, Ph.D., Interim  
Journalism and Mass Communication—Judith B. Oskam, Ed.D.  
Music—Thomas S. Clark, D.M.A.  
Theatre and Dance—Debbie R. Alley, M.F.A.

## School of Art and Design

Joann Cole Mitte Building Room 2112  
T: 512.245.2611 F: 512.245.7969  
<http://www.finearts.txstate.edu/Art/art.html>

The ever-accelerating advance of technology is bringing down borders and transforming our world into a global community—a diverse community in need of a common language. Art has always been an influential voice, and today the potential for the communicative power of art is greater than ever. Today's world needs the visual arts.

At Texas State, we strive to educate our students to not only master traditional media and skills of art and design, but also to think, research and problem-solve. This rich combination approach provides a strong foundation for mastery and equips students to communicate a personal vision or a client's vision. The faculty of the School of Art and Design aim for our graduates not only to make significant contributions to the world of art and design but also to take leadership roles within their communities.

Our facilities provide students with state of the art resources. This, coupled with the excellence of our nationally and internationally recognized faculty, allows us to offer our students outstanding academic curricula and a broad scope of professional expertise.

Master of Fine Arts (M.F.A.)

- Major in Communication Design (p. 867)

## Master of Fine Arts (M.F.A.), Major in Communication Design

### Major Program

The master of fine arts (M.F.A.) with a major in communication design is the terminal degree in the discipline. The curriculum is designed to provide advanced study in the areas of corporate advertising art direction, graphic design, and digital media design.

The graduate program provides students with the knowledge and expertise to attain the following: exploration of advanced problem-solving methodologies, updating technological advancement relating to communication design, examining historical events, theoretical constructs within communication design, and preparation for a career teaching in higher education.

Students will have the opportunity to complete a portion of the degree by the means of online instruction, extended weekend seminars, evening courses, blended (mix of online and face-to-face), and directed study courses.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cmdes.html>.

### Degree Requirements

The degree will require a minimum of 60 semester credit hours:

#### Required Core

ARTC 5340	Contemporary Issues and Criticism	3
ARTC 5341	Modernism and Design	3
ARTC 5342	Postmodernism and Typography	3
ARTC 5343	Communication Design Seminar	3
ARTC 5370	Professional Practice (Taken twice for credit)	6

#### Prescribed Electives

Choose 30 hours from the following:	30
ARTC 5310	Art Direction
ARTC 5320	Web Design
ARTC 5321	Digital Imaging
ARTC 5322	Word and Image
ARTC 5330	Typography
ARTC 5331	Corporate Identity Systems
ARTC 5332	Corporate Marketing Materials
ARTC 5333	The Experimental Book
ARTC 5350	Special Problems in Communication Design
ARTC 5360C	Environmental Graphic Design Systems
ARTC 5360D	Typeface Design
ARTC 5360E	Sustainable Packaging Design
ARTC 5360G	Interactive Design
ARTC 5360H	Mobile and Social Media
<b>Free Electives</b>	<b>6</b>
Choose 6 hours in consultation with the graduate advisor	
<b>Thesis Course Work</b>	
Choose a minimum 6 hours	<b>6</b>
ARTC 5199B	Thesis
ARTC 5299B	Thesis
ARTC 5399A	Thesis
ARTC 5399B	Thesis
ARTC 5599B	Thesis
ARTC 5999B	Thesis
<b>Total Hours</b>	<b>60</b>

In addition to the required credit hours, the degree requires a Mid-Program Portfolio Review. The review will occur after students successfully complete 30 credit hours. The graduate advisor and select M.F.A. faculty will assess each Mid-Term Portfolio component. Passing Mid-Program Portfolio Review will allow the student to continue with their graduate study. The student with an unsatisfactory Mid-Program Portfolio Review will be allowed to make portfolio work revisions and resubmit (one resubmission only) the portfolio work for reassessment (one time).

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

### Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research



involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of

commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Art and Design: ARTC (p. 868), ARTH (p. 871), ARTS (p. 871), ARTT (p. 871)

## Courses Offered

### Communication Design (ARTC)

#### ARTC 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### ARTC 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### ARTC 5300. Graduate Assistant Development.

This course is required as a condition of employment for graduate teaching and instructional assistants. It will provide in-service training and evaluations of instructional philosophies, techniques and responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### ARTC 5301. Communication Design Foundations.

This course may be taken only to fulfill communication design background. Students will acquire knowledge and graphic design skills necessary for advanced studies. This course does not earn graduate degree credit. Prerequisites: Consent of the graduate advisor. Repeatable with different emphasis. Graded on a credit (CR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships



**ARTC 5310. Art Direction.**

Advanced in-depth instruction involving conceptual principles, design, copy strategies, and branding methods in print, broadcast, and e-commerce advertising art direction and design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5313. Communication Design Advanced Problems.**

An independent study in communication design, which requires students to pursue complex design problems. Goals and objectives will be outlined in a written format. May be repeated with different emphasis for additional credit. Prerequisite: Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5320. Web Design.**

Students will research, create, and produce advanced online products for Internet. Emphasis is placed on information architecture, interface design, and navigation constructs in order to produce unique online communications. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5321. Digital Imaging.**

Exploration and experimental usage of digital black and white and color imagery utilizing non-traditional approaches to image making. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5322. Word and Image.**

Exploration and experimental usage of the written word integrated with visual forms by using digital and traditional photographic, illustrated, and graphic media. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5330. Typography.**

This course examines the traditional and experimental advanced usage of type and its relationship to the symbolic or communicative message. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5331. Corporate Identity Systems.**

Students explore complex corporate and institutional identity systems. Concept, design, program continuity, and branding in the marketplace will be emphasized. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5332. Corporate Marketing Materials.**

This course will explore advanced development of typographic elements, layout grid constructs, photo-imagery, and illustration for publication of corporate marketing materials. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5333. The Experimental Book.**

Students explore the experimental printed book including concept, design, and unique production such as unique binding methods.

Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5340. Contemporary Issues and Criticism.**

This course examines emerging issues in graphic design and design criticism, primarily from the turn of the 21st century to the present.

Students will learn to analyze and critique graphic design, and will produce a work of critical writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5341. Modernism and Design.**

This course explores the modernist movement in design, as it emerged in Europe and America in the early twentieth century. Topics include: visual cultural theory, the origins of modernism, Dada, Constructivism, DeStijl, the Bauhaus, and American modernism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5342. Postmodernism and Typography.**

This course explores the relationship between form and content through the lens of graphic design and typography from the 1960s through 1990s, with a focus on postmodernism. Topics include: new wave and experimental typography, design authorship, appropriation, deconstruction, narrative structures, and new media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5343. Communication Design Seminar.**

This course examines communication design research methods, modes of practice, and models of the creative process. Students will engage in individual research inquiries, in order to develop the topic for their master's thesis in Communication Design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5350. Special Problems in Communication Design.**

An independent study requiring complex problem-solving in communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5360C. Environmental Graphic Design Systems.**

This course will explore complex corporate, consumer, and institutional environmental systems. Concept, design, program continuity, and environmental graphic design systems (EGDS) in the marketplace will be emphasized. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360D. Typeface Design.**

This course explores the detailed anatomy of typefaces in order to design custom typefaces through various applications. Students with an advanced knowledge of typography will research detailed type anatomy as well as historical and cultural typographic constructs. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360E. Sustainable Packaging Design.**

Students will explore the role of sustainable package design in context to meeting the requirements of clients and consumers in the global marketplace. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360F. Communication Design Business Strategies.**

In this course, the student will be exposed to the principles of project, studio, marketing, and business development management as it relates to the business operations of a communication design studio. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360G. Interactive Design.**

This course explores the concept of interactivity in all its form, from the digital to the physical as it relates to communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360H. Mobile and Social Media.**

In this course, the student explores the implications of social networking and mobile communications in contemporary communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360I. Editorial Design.**

This course develops typographic skills pertaining to page layout through the use of functional and aesthetic type and its application within the digital environment. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360J. International Perspective in Typography.**

This course studies the international perspectives of typography. This course requires a field trip abroad and will conclude with one extensive communication design assessment based upon the field trip experience. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360K. Data Visualization.**

This course explores methods of combining visual aesthetics with real data to create meaningful and at times complex visualizations. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360L. User Experience Design.**

This course explores advanced concepts in user-centered mobile applications, Web site, and operating system interface design. Students will solve design problems that take into account a holistic view of the user and how they interact with software. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360M. Design for Social Impact.**

This course will provide a platform to explore the ways that design processes can be applied in order to enable positive social change. The course reconsiders the role of the designer in the context of the social sector. Repeatable up to 3 times when the area(s) of emphasis change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360N. Alternative Printing Methods.**

This course will explore hands-on printing methods for designers. Letterpress, screen-printing and other alternative printing methods will be explored to visually express design concepts. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360O. Kinetic Typography.**

Students will study the creation of moving typography as an extension of typography and animation. The history and development of typography and motion graphics in art will be examined. Students will engage in innovative development of kinetic typography using current digital technology combined with experimental techniques. Repeatable up to 3 times for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360P. International Design Student Synergy Project.**

Students will collaborate with students from the MFA program at the Jade Hochschule in Wilhelmshaven. This course requires a one-week stay in Wilhelmshaven, Germany. It will conclude with one extensive communication design project that showcases their research done abroad. Students will research German Design values while on location and discuss with German design students, while also presenting American design values. Restricted to students enrolled in the MFA Communication Design major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360Q. Experience Design.**

Students will learn how the evolution of computing information has changed the role of technology and experience designers. Students will generate a variety of Web and Mobile applications using Artificial Intelligence as the core technology. Restricted to Communication Design MFA majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5370. Professional Practice.**

Students are placed in regional and national advertising agencies, digital media studios, or graphic design firms to gain professional practice experience. Repeatable once for credit

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5399A. Thesis.**

The course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in ARTC 5399B. Graded on a credit (CR), program (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Art History (ARTH)****ARTH 5302. Special Problems Advanced.**

An independent study course involved with art history, aesthetics, and criticism. The emphasis of the course is on scholarship, research, and writing. May be repeated with different emphasis for additional credit.

Prerequisite: Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Studio Art (ARTS)****ARTS 5301. 2-D Advanced Special Problems.**

An independent study in 2-D studio art, which requires a student to pursue a personal conceptual direction and to develop the technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Permission of instructor required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTS 5302. 3-D Advanced Special Problems.**

An independent study in studio art, which requires a student to pursue a personal conceptual direction and to develop the technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Permission of instructor required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Art Theory & Practice (ARTT)****ARTT 5376. Research in Art Theory and Practice for Children.**

Individualized study focusing on art skill and knowledge development related to children's art learning experiences. May be repeated with different emphasis for additional credit. Teaching experience or admission to graduate degree program and permission of instructor required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 5377. Research in Art Theory and Practice for Adolescents and Adults.**

Individualized study focusing on art skill and knowledge development related to adolescent and/or adult art experiences. May be repeated with different emphasis for additional credit. Teaching experience or admission to graduate degree and permission of instructor required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Department of Communication Studies**

Centennial Hall Room 205

T: 512.245.2165 F: 512.245.3138

<http://www.finearts.txstate.edu/commstudies>

Communication studies students are skilled researchers, writers, speakers, problem-solvers, and leaders. The faculty and staff in the Department of Communication Studies are experts at helping students understand the vital connections between research and teaching inside and outside the classroom. Twenty-one full-time faculty members are active in national and international associations, publish in peer-reviewed journals, and win numerous awards for teaching excellence.

Our international reputation comes from several collaborative research projects, faculty and student exchanges, and faculty visiting scholar appointments at Russian universities including Moscow State University, Pyatigorsk State Linguistic University, and The Cultural Institute of St. Petersburg, Russia. We also have collaborative relationships with the University of Amsterdam, Netherlands; Oxford University, England; Cambridge University, England; University of Siena, Italy; and the University of Florence, Italy.

The department also proudly sponsors the student honor society Lambda Pi Eta, the COMM Club, and the Texas State forensics team and LBJ Debate Society. The Elton Abernathy Forensics Society is Texas State's competitive speech team. The LBJ Debate Society is named for former President Lyndon B. Johnson, who was involved in debate as a student at Texas State University. Both teams travel locally, regionally, and nationally.

## Facilities

In 1998, the department moved to its new facilities in the completely renovated Centennial Hall. This new location offers outstanding resources including twenty-four faculty offices, several graduate assistant office suites, research labs, computer labs, conference rooms, several well-equipped classrooms, and a state of the art teaching theatre.

## Financial Assistance

Graduate Assistantships offered at competitive stipends with waiver of out-of-state tuition are available to qualified applicants. Assistantship responsibilities include teaching communication fundamentals, serving as assistant director of forensics, or assisting faculty with research. Most assistantships are assigned in March for the fall term, but assistantships may be available for students who wish to begin the graduate program in the spring or summer.

The department offers limited scholarships for currently enrolled students. Also, the College of Fine Arts and Communication and The Graduate College provide a variety of scholarships for new and returning graduate students. See the various web sites for details.

## Master of Arts (M.A.)

- Major in Communication Studies (p. 872)

## Minor

- Communication Studies (p. 879)

## Certificate Program

- Corporate Communication and Training (p. 879)

# Master of Arts (M.A.), Major in Communication Studies

## Major Program

A master of arts (M.A.) with a major in communication studies offers students maximum flexibility in designing their own customized programs. Students may choose the comprehensive program or thesis program with either a resource area or minor option for course work in other departments. Students may select communication studies courses that develop expertise in one or more of the following areas: organizational communication, rhetorical studies, communication training and development, interpersonal communication, or instructional communication. Students also may select courses from related disciplines, such as mass communication, education, English, psychology, sociology, and business. The department encourages all students to explore courses that provide a breadth of knowledge about human communication.

## Organizational Communication

Students primarily interested in organizational communication investigate the function, flow, and structure of communication in organizations to enhance organizational effectiveness. Key courses include such topics as: *Organizational Communication*, *Advanced Organizational Communication Theory and Practice*, *Communication and Negotiation*, *Seminar in Communication and Technology*, *Communication Training and Development*, and *Communication Assessment*.

## Rhetorical Studies

Students interested in rhetorical studies investigate how symbols have the power to shape perceptions and alter attitudes. Students may select from courses that offer a broad overview of rhetorical theory and rhetorical methods. Courses with applications to specific communication contexts include *Seminar in Political Communication* and *Organizational Rhetoric*. Students may also explore special areas such as media, movements, and genres in *Contemporary Rhetoric and Social Influence* and *Historical Rhetoric and Social Influence*.

## Communication Training and Development, Communication Assessment, and Organizational Communication Analysis and Development

Students who seek careers as communication trainers or human resource development specialists select from several courses that provide information and prescribe strategies to enhance communication performance. *Advanced Organizational Communication Theory and Practice*, *Organizational Communication Analysis and Development*, *Communication Assessment* and *Seminar in Instructional Communication* provide additional insight into the communication training function.

## Health Communication

Students who focus on health communication investigate the essential role of communication in healthcare through a variety of courses that may include: *Health Communication*, *Critical Health Rhetoric*, *Communication in Health Organizations*, and *Relational Health Communication*. Course work in health communication explores topics such as barriers to patient and provider interactions, health communication leadership, health disparities, healthcare training and assessment, health in relationships, and healthcare team effectiveness.

## Interpersonal Communication

Students who emphasize interpersonal communication take courses that focus on the role of communication in the development and maintenance of human relationships. *Seminar in Interpersonal Communication* provides a comprehensive review of theory and research that explores interpersonal relationships. Other courses that emphasize interpersonal communication theory and research include: *Gender and Communication*, *Seminar in Nonverbal Communication*, *Communication and Negotiation*, *Seminar in Small Group Communication*, and *Seminar in Communication and Technology*.

## Instructional Communication

Students who wish to pursue careers in teaching at the community college level will find a broad array of courses that will prepare them for a career in education. We offer courses that focus upon communication curricula typically found in community colleges (interpersonal communication, small group communication, public speaking, and communication fundamentals). *Seminar in Instructional Communication* and *Communication Assessment* provide a classic description of the form



and function of communication in instructional settings. In addition, students may select courses from our outstanding College of Education.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/comm.html>.

## Facilities

In 1998, the department moved to its new facilities in the completely renovated Centennial Hall. This new location offers outstanding resources including twenty-four faculty offices, several graduate assistant office suites, research labs, computer labs, conference rooms, several well-equipped classrooms, and a state of the art teaching theatre.

## Faculty

The department's communication studies faculty members are active in state, regional, national, and international associations and publish widely in professional and academic journals.

## Degree Requirements

There are two program options for graduate students; the comprehensive, non-thesis program provides the greatest flexibility and breadth of understanding, and the thesis program emphasizes greater depth of understanding. The department assigns all communication studies majors to the comprehensive program with a resource area. After the first term of course work, the student may request the thesis option or select a minor.

Students may choose to finish either program with 6 or more hours of a resource area or a minor. Students consult with the communication studies graduate advisor to select the courses in a resource area, but students must consult and obtain the approval of graduate advisors in other departments to complete a minor. Minors often involve more than 6 hours of course work.

While it is possible to complete the degree requirements within three long terms, many majors elect to extend their course work over two years. Communication studies graduate courses are usually offered in the evening during a long term.

Students must maintain a 3.0 GPA in all communication studies courses in order to graduate.

## Applying for a Thesis or a Comprehensive Exam Committee

A student must be in good academic standing to apply for a thesis or comprehensive exam committee. The student's cumulative GPA in all their graduate classes and in their communication studies classes must be 3.0 or higher. Also, the student should not have any incomplete grades in their classes.

Students must submit departmental forms to the director of graduate studies by November 1 or April 1. Students applying for a thesis must make the request in the term in which they will complete 15 hours of course work. This is generally during the second term of full-time graduate course work since students must complete a thesis over two or more terms. Students applying for a comprehensive exam committee must make the request in the term in which they will complete 27 hours

of course work. This is the term before they anticipate graduating. The graduate faculty reviews all requests.

## Course Work Requirements

### 9-hour Minor Option, Non-thesis

<b>Core Course Work</b>		<b>6</b>
COMM 5301	Empirical Methods in Communication Research	
COMM 5302	Rhetorical Methods	
<b>Communication Studies Electives</b>		<b>21</b>
Chosen from the following in consultation with graduate advisor:		
COMM 5315	Directed Research in Communication Studies	
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5321	Communication Assessment	
COMM 5324	Seminar in Instructional Communication	
COMM 5325	Seminar in Human Communication Theory	
COMM 5327	Contemporary Rhetorical Theory	
COMM 5329B	Communication and Negotiation	
COMM 5329D	Managing Communication Technologies in the Workplace	
COMM 5329E	Communication and Organizational Culture	
COMM 5330	Seminar in Nonverbal Communication	
COMM 5331	Seminar in Persuasive Communication	
COMM 5332	Seminar in Communication and Technology	
COMM 5342	Historical Rhetoric and Social Influence	
COMM 5343	Contemporary Rhetoric and Social Influence	
COMM 5345	Seminar in Political Communication	
COMM 5347	Seminar in Small Group Communication	
COMM 5350	Applied Communication Studies	
COMM 5355	Media Criticism	
COMM 5356	Gender and Communication	
COMM 5371	Communication Training and Development	
COMM 5372	Organizational Communication Analysis and Development	
COMM 5374	Seminar in Organizational Rhetoric	
COMM 5395	Capstone Research Project	
<b>Minor Course Work</b>		<b>9</b>
Total Hours		<b>36</b>

### 6-hour Minor Option, Thesis

<b>Core Course Work</b>		<b>6</b>
COMM 5301	Empirical Methods in Communication Research	
COMM 5302	Rhetorical Methods	
<b>Communication Studies Electives</b>		<b>12</b>
Chosen from the following in consultation with graduate advisor:		
COMM 5315	Directed Research in Communication Studies	
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5321	Communication Assessment	
COMM 5324	Seminar in Instructional Communication	
COMM 5325	Seminar in Human Communication Theory	
COMM 5327	Contemporary Rhetorical Theory	
COMM 5329B	Communication and Negotiation	



COMM 5329D	Managing Communication Technologies in the Workplace	
COMM 5329E	Communication and Organizational Culture	
COMM 5330	Seminar in Nonverbal Communication	
COMM 5331	Seminar in Persuasive Communication	
COMM 5332	Seminar in Communication and Technology	
COMM 5342	Historical Rhetoric and Social Influence	
COMM 5343	Contemporary Rhetoric and Social Influence	
COMM 5345	Seminar in Political Communication	
COMM 5347	Seminar in Small Group Communication	
COMM 5350	Applied Communication Studies	
COMM 5355	Media Criticism	
COMM 5356	Gender and Communication	
COMM 5371	Communication Training and Development	
COMM 5372	Organizational Communication Analysis and Development	
COMM 5374	Seminar in Organizational Rhetoric	
COMM 5395	Capstone Research Project	
<b>Minor Course Work</b>		6
<b>Thesis Course Work</b>		6
Choose a minimum of 6 hours		
COMM 5199B	Thesis	
COMM 5299B	Thesis	
COMM 5399A	Thesis	
COMM 5399B	Thesis	
COMM 5599B	Thesis	
COMM 5999B	Thesis	
Total Hours		30

### 6-hour Minor Option, Non-thesis

<b>Core Course Work</b>		6
COMM 5301	Empirical Methods in Communication Research	
COMM 5302	Rhetorical Methods	
<b>Communication Studies Electives</b>		24
Chosen from the following in consultation with graduate advisor:		
COMM 5315	Directed Research in Communication Studies	
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5321	Communication Assessment	
COMM 5324	Seminar in Instructional Communication	
COMM 5325	Seminar in Human Communication Theory	
COMM 5327	Contemporary Rhetorical Theory	
COMM 5329B	Communication and Negotiation	
COMM 5329D	Managing Communication Technologies in the Workplace	
COMM 5329E	Communication and Organizational Culture	
COMM 5330	Seminar in Nonverbal Communication	
COMM 5331	Seminar in Persuasive Communication	
COMM 5332	Seminar in Communication and Technology	
COMM 5342	Historical Rhetoric and Social Influence	
COMM 5343	Contemporary Rhetoric and Social Influence	
COMM 5345	Seminar in Political Communication	
COMM 5347	Seminar in Small Group Communication	

COMM 5350	Applied Communication Studies	
COMM 5355	Media Criticism	
COMM 5356	Gender and Communication	
COMM 5371	Communication Training and Development	
COMM 5372	Organizational Communication Analysis and Development	
COMM 5374	Seminar in Organizational Rhetoric	
COMM 5395	Capstone Research Project	
<b>Minor Course Work</b>		6
Total Hours		36

### Thesis Option

<b>Core Course Work</b>		6
COMM 5301	Empirical Methods in Communication Research	
COMM 5302	Rhetorical Methods	
<b>Communication Studies Electives</b>		12
Chosen from the following in consultation with graduate advisor:		
COMM 5315	Directed Research in Communication Studies	
COMM 5318	Seminar in Interpersonal Communication	
COMM 5319	Organizational Communication	
COMM 5321	Communication Assessment	
COMM 5324	Seminar in Instructional Communication	
COMM 5325	Seminar in Human Communication Theory	
COMM 5327	Contemporary Rhetorical Theory	
COMM 5329B	Communication and Negotiation	
COMM 5329D	Managing Communication Technologies in the Workplace	
COMM 5329E	Communication and Organizational Culture	
COMM 5330	Seminar in Nonverbal Communication	
COMM 5331	Seminar in Persuasive Communication	
COMM 5332	Seminar in Communication and Technology	
COMM 5342	Historical Rhetoric and Social Influence	
COMM 5343	Contemporary Rhetoric and Social Influence	
COMM 5345	Seminar in Political Communication	
COMM 5347	Seminar in Small Group Communication	
COMM 5350	Applied Communication Studies	
COMM 5355	Media Criticism	
COMM 5356	Gender and Communication	
COMM 5371	Communication Training and Development	
COMM 5372	Organizational Communication Analysis and Development	
COMM 5374	Seminar in Organizational Rhetoric	
COMM 5395	Capstone Research Project	
<b>Resource Area Course Work</b>		6
<b>Thesis Course Work</b>		6
Choose a minimum of 6 hours		
COMM 5199B	Thesis	
COMM 5299B	Thesis	
COMM 5399A	Thesis	
COMM 5399B	Thesis	
COMM 5599B	Thesis	

COMM 5999B Thesis	
Total Hours	30

## Non-thesis Option

### Core Course Work 6

COMM 5301 Empirical Methods in Communication Research

COMM 5302 Rhetorical Methods

### Communication Studies Electives 24

Chosen from the following in consultation with graduate advisor:

COMM 5315 Directed Research in Communication Studies

COMM 5318 Seminar in Interpersonal Communication

COMM 5319 Organizational Communication

COMM 5321 Communication Assessment

COMM 5324 Seminar in Instructional Communication

COMM 5325 Seminar in Human Communication Theory

COMM 5327 Contemporary Rhetorical Theory

COMM 5329B Communication and Negotiation

COMM 5329D Managing Communication Technologies in the Workplace

COMM 5329E Communication and Organizational Culture

COMM 5330 Seminar in Nonverbal Communication

COMM 5331 Seminar in Persuasive Communication

COMM 5332 Seminar in Communication and Technology

COMM 5342 Historical Rhetoric and Social Influence

COMM 5343 Contemporary Rhetoric and Social Influence

COMM 5345 Seminar in Political Communication

COMM 5347 Seminar in Small Group Communication

COMM 5350 Applied Communication Studies

COMM 5355 Media Criticism

COMM 5356 Gender and Communication

COMM 5371 Communication Training and Development

COMM 5372 Organizational Communication Analysis and Development

COMM 5374 Seminar in Organizational Rhetoric

COMM 5395 Capstone Research Project

### Resource Area Course Work 6

Total Hours	36
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If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the

student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) *or* PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Doctoral and Master's level courses in Communication Studies: COMM

## Courses Offered

### Communication Studies (COMM)

#### COMM 5100. Teaching Communication Studies.

An introduction to curriculum, instruction, and assessment methods in the teaching of Communication Studies. Provides an orientation as well as regular in-service training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### COMM 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### COMM 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### COMM 5301. Empirical Methods in Communication Research.

An examination of empirical research methods in speech communication. Measurement procedures, statistics, experimental design, and descriptive research methods will be investigated as well as a consideration of scholarly writing and library research. Required of communication studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5302. Rhetorical Methods.

A study of approaches to the analysis of public discourse directed toward establishing workable perspectives for students conducting rhetorical analysis. Required of communication studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5310. Methods of Teaching Communication Studies.

A study of the methods of the teaching speech communication principles and skills for secondary school teachers. Prerequisite: Admission to teacher certification program or permission of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5312. Intercultural Communication.

This course is based on an understanding that culture is maintained through systems of meaning, and that communication is the sharing of meaning between people. We will explore the many ways in which language, culture, and communication interact with, influence, and manifest in each other in our everyday lives. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5313. Relational Communication.

This course provides a comprehensive overview of relational communication theories and research. Students engage with theory and research frameworks to think critically about relational communication perspectives and contributions, understand the strengths and limitations of those perspectives, and learn to contribute to new knowledge of relational communication. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5314. Family Communication.

This course explores the communication processes associated with families. Topic areas for exploration will include: storytelling, intimacy, conflict, rituals, religion, health-illness, and death. The goal is to further understand interdisciplinary research and theory related to family interactions embedded in larger webs of social, cultural, and generational relationships. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### COMM 5315. Directed Research in Communication Studies.

A course to be offered to certain graduate students to allow for independent study in a specific area for which a regular course is not available. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

#### COMM 5318. Seminar in Interpersonal Communication.

A review of current research in the area. Includes an examination of contemporary theories and research methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5319. Organizational Communication.**

Examines organizational communication theory and research in applied organizational contexts. Provides communication professionals with an analytical framework for improving communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5320. Directing Communication Studies and Theatre Activities.**

Designed to assist any teacher, whether of speech and drama or some other subject, in directing speech and drama activities. During the course, those in the class will actually direct debate, plays, declamation, and other activities. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5321. Communication Assessment.**

An in-depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5324. Seminar in Instructional Communication.**

Examines communication instruction theory and research and their practical applications in various instructional settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5325. Seminar in Human Communication Theory.**

An examination of theories of human communication contexts including interpersonal, family, intercultural, organizational, and instructional communication. May be repeated with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5327. Contemporary Rhetorical Theory.**

A survey of the major contemporary theoretical perspectives and conceptual debates in rhetoric. Focuses upon critical interpretations and applications of theory in addition to study of primary theorists' writings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5329B. Communication and Negotiation.**

Examines theory, research, and practice of conflict management and negotiation. Prerequisite: COMM 5319 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5329D. Managing Communication Technologies in the Workplace.**

Examines how communication technologies both help and hinder workplace communication. Examines theory, practical applications, key scholars and empirical research. Heavy focus on using case studies that provide context for learning how to thrive in the contemporary organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5329E. Communication and Organizational Culture.**

A seminar about communication and organizational culture. Discussion and materials explore communication practices that enable people to identify themselves as members of an organization and bind themselves to each other. Students will have the opportunity to analyze an organization. Prerequisite: COMM 5319 or consent of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5330. Seminar in Nonverbal Communication.**

A review of current theory and research of nonverbal communication behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5331. Seminar in Persuasive Communication.**

An analysis of behavioral theories of persuasion. Emphasis placed on understanding established theories of attitude formation and change, contemporary persuasion, research, and the application of persuasion theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5332. Seminar in Communication and Technology.**

Focuses on research and theories about the relationships between technology and communication behavior in interpersonal group, and organization contexts. Also considers relationships between communication, technology, and culture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5333. Health Communication.**

This course provides an overview of health communication theory and research to explore how interpersonal, organization, and cultural messages shape our views of illness and the health care system.

Topics will include health literacy, health risk messages, e-health, health disparities, and physician-patient interactions. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5342. Historical Rhetoric and Social Influence.**

The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in history. Includes emphasis on the following topics: American Public Address, Rhetoric of Woman's Suffrage, and other historic topics of interest. May be repeated with different emphasis or topic for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5343. Contemporary Rhetoric and Social Influence.**

The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in contemporary society. Includes emphasis on the following topics: rhetoric and culture, rhetorical movements, and rhetorical genres. May be repeated with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**COMM 5344. American Speeches.**

This course is a survey of American public address. The class will study significant and representative speeches from different periods of American history. This class will examine what the study of American public address can teach us about history, communication, and social influence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5345. Seminar in Political Communication.**

Study of political communication in contemporary times. Course will cover the rhetoric of candidates and politicians, the structure of political campaigns, and campaign practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5347. Seminar in Small Group Communication.**

An examination of theories and research evidence about communication in the small group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5350. Applied Communication Studies.**

An application of communication principles and skills. Topics covered may include organizational, interpersonal, nonverbal and group communication, conflict management, communication technology, and persuasion analysis. May not be taken for credit by students pursuing M.A. degree in Communication. May be repeated for additional credit with department approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5355. Media Criticism.**

A rhetorical analysis of media from a Contemporary Cultural Studies perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5356. Gender and Communication.**

An examination of research and theories about gender communication, relationships, and qualitative research methods. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 5360. Introduction to Empirical Research in Communication.**

Introduction to Communication Studies as a behavioral science. Students will learn principles of the scientific method; explore quantitative and qualitative methods; investigate variables across the field (persuasion, interpersonal, organizational, non-verbal, intercultural, and instructional); and analyze and apply research in Communication. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**COMM 5362A. Organizational Communication.**

Introduction to communication concepts in the context of organizations. Students will learn how communication influences contemporary organizations through familiarity with contemporary research. Students will be prepared to understand, investigate, and manage communication processes in organizations. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**COMM 5362B. Organizational Rhetoric.**

Introduction to the study of organizational rhetoric designed for internal and external audiences. Students will analyze and create messages based in theories of organizational rhetoric. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**COMM 5363. Introduction to Rhetorical Research in Communication.**

Introduction to the rhetorical tradition in Communication, with a focus on methods of analysis of discourse. Students will learn the significance of rhetorical analysis; explore a variety of critical methodologies; perform an analysis of discourse; and report findings in writing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**COMM 5371. Communication Training and Development.**

This course examines the theory and practice of developing and presenting communication training sessions for organizations.

**Prerequisite:** COMM 5319 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5372. Organizational Communication Analysis and Development.**

Examines communication problems in organizations and describes effective interventions. Provides communication managers and consultants with a broad range of tools and procedures for diagnosing and changing communication. **Prerequisite:** COMM 5319, undergraduate organizational communication course, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5374. Seminar in Organizational Rhetoric.**

This seminar will include an examination of how organizations use symbols to accomplish a variety of functions for internal and external audiences, as well as exploring the concept of organization as rhetorical argument

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5390. Communication Internship.**

Students acquire on-the-job experience in a position with an off-campus organization using skills and knowledge acquired through graduate coursework; requires written reports and other projects as specified by the supervising instructor. Graded on a credit (CR), no credit (F) basis. **Prerequisite:** Permission of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**COMM 5395. Capstone Research Project.**

Under the direction of a graduate faculty member, students develop and submit a research or applied project using knowledge and skills acquired through graduate coursework. Required for students not pursuing the thesis path. May be taken only once for degree credit. Prerequisite: Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Communication Studies 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 7315. Directed Research in Communication Studies.**

Independent study of a specific communication research area. May be repeated with different emphasis for additional credit. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 7325A. Instructional Communication.**

A review of instructional communication theory and research with an emphasis on the function of communication in instructional settings. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325B. Organizational Communication.**

A review of organizational communication theory and research with an emphasis on organizational development from a communication perspective. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325C. Communication Assessment.**

An in depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Minor in Communication Studies

A student who minors in communication studies should have completed at least 18 undergraduate semester hours of course work in communication studies (COMM).

**A minor in communication studies requires a minimum of 12 semester hours of graduate-level COMM courses.** The department encourages communication studies minors to take course work from both rhetorical and behavioral perspectives to gain a broad perspective of the communication studies discipline.

Students may take COMM courses as part of a resource or cognate area. Students who wish to take course work in communication studies that is not part of an approved minor should consult with the instructor of the course or the communication studies graduate advisor.

## Certificate in Corporate Communication and Training

The nine-hour certificate program in corporate communication and training is designed to provide foundational instruction in organizational communication, communication training, and human resource development and other related course work for individuals interested in corporate communication, training, and human resource development.

The requirements for this certificate consist of two core courses augmented by one approved elective course in communication. Students pursuing this certificate are required to complete:

COMM 5319	Organizational Communication	3
COMM 5371	Communication Training and Development	3
Select one of the following:		3
COMM 5318	Seminar in Interpersonal Communication	
COMM 5321	Communication Assessment	
COMM 5324	Seminar in Instructional Communication	
COMM 5325	Seminar in Human Communication Theory	
COMM 5329B	Communication and Negotiation	
COMM 5332	Seminar in Communication and Technology	
COMM 5347	Seminar in Small Group Communication	
COMM 5350	Applied Communication Studies	
COMM 5372	Organizational Communication Analysis and Development	
COMM 5374	Seminar in Organizational Rhetoric	

Total Hours 9

The admissions criteria for the graduate certificate in corporate communication and training are the same as the criteria for applying for the M.A. degree in communication studies. Applicants must have an undergraduate degree from an accredited institution and at least a 3.2 GPA in the last 60 hours of course work. Background hours

in communication studies, including undergraduate course work in empirical research and methods, may be required for entrance to the certificate program.

Admission into the certificate program in corporate communication and training is separate from the M.A. degree program in communication studies. To apply for the graduate certificate in corporate communication and training through The Graduate College, use the Apply Texas online system. Admission to the certificate program is selective. In addition to submitting your application online you should also submit a 500-word statement addressing the following questions:

1. Why are you seeking the graduate certificate in corporate communication and training?
2. How does your academic background prepare you for the certificate (such as previous course work in communication and/or experience as a trainer)?
3. What are your plans after completing the graduate certificate in corporate communication and training and how do you plan to apply this certificate?

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## School of Journalism and Mass Communication

Old Main Building Room 102  
T: 512.245.2656 F: 512.245.7649  
<http://www.masscomm.txstate.edu/>

The School of Journalism and Mass Communication offers many opportunities for media professionals, academic researchers, educators, and recent graduates to expand their education and training within the mass communication field. The courses offered cultivate strong research, analytical, and multimedia skills that prove advantageous to the media professionals as well as to those interested in continuing their education at the doctoral level. Students will broaden their understanding of communication theories and current research and will be prepared for doctoral studies in journalism, mass communication, or related fields. The School also develops students' critical thinking abilities and practical skills that will enable them to take up media-related positions in the changing global and interactive media environment. It also enables students whose undergraduate major may not have been mass communication to gain a skills and theory base for mass communication careers. The School houses the Center for the Study of Latino Media and Markets which promotes research, conferences, forums, and other activities to enhance the understanding of issues related to the growing Latino media and markets at the national and international levels.

The varied expertise of faculty and diverse backgrounds of both faculty and students provide a healthy learning environment in which participants learn through interaction and discussion. Courses offered in the program address a variety of cutting-edge topics such as online and social media as well as traditional topics such as mass communication theory and research methods. In addition, students select courses from outside the school to supplement their studies.

Our academic curriculum is designed for students who want to learn cutting-edge communication skills and to develop a lifelong commitment to the responsibilities and privileges of being mass communicators in a high-tech, multicultural, global society. The School's faculty offices, classrooms, high-tech media labs, and administrative offices are located in historic Old Main, situated atop Chautauqua hill and overlooking the Texas State campus and the city of San Marcos.

Students who come to study with us have plenty of opportunities to experience hands-on what it's like to work in media professions. Our school provides professional student-operated media to the campus and community, including *The University Star* newspaper; KTSW-FM, a 10,500 watt radio station; Bobcat Update, a twice weekly newscast airing on local cable; and Bobcat PRomotions, a student public relations agency serving clients on and off campus.

Learning takes place both inside and outside the classroom. Students can be involved in extra-curricular activities through SJMC-sponsored chapters of the American Advertising Federation, National Broadcasting Society, Society of Professional Journalists, Public Relations Student Society of America, and other groups.

Our students are excellent scholars and competitors in state, regional, and national competitions. The University Star newspaper received seven awards in 2014 from the Society of Professional Journalists organization.

Students from the school hold internships at major media outlets in Texas and throughout the nation, including positions with Scripps Howard, Dow Jones, Chips Quinn, and others.

The faculty and student body are richly diverse — 21% of all students are Hispanic — and faculty members hail from Puerto Rico, India and South Korea. Faculty members are productive scholars who present papers and actively participate in regional, national and international conferences. Two Fulbright scholars are members of the school's faculty, and the school is a recipient of a Ford Foundation grant to develop a Latino Media and Markets Program.

The School of Journalism and Mass Communication at Texas State is accredited by ACEJMC — a designation earned through excellence and commitment to high standards in professional journalism and mass communication education and earned by only 20% of JMC programs in the country. We have more than 1,700 majors enrolled in our undergraduate and graduate programs — which makes the program one of the largest journalism and mass communication programs in the state of Texas — and the nation.

## Master of Arts (M.A.)

- Major in Mass Communication (p. 880)

## Master of Arts (M.A.), Major in Mass Communication

### Major Program

The School of Journalism and Mass Communication offers many opportunities for media professionals, academic researchers, educators, and recent graduates to expand their education and training within the mass communication field. The courses offered cultivate strong research, analytical, and multimedia skills that prove advantageous to the media professionals as well as to those interested in continuing their education at the doctoral level. Students will broaden their understanding

of communication theories and current research and will be prepared for doctoral studies in journalism, mass communication, or related fields. The program also develops students' critical thinking abilities and practical skills that will enable them to take up media-related positions in the changing global and interactive media environment. The program also enables students whose undergraduate major may not have been mass communication to gain a skills and theory base for mass communication careers. The school houses the Center for the Study of Latino Media and Markets which promotes research, conferences, forums, and other activities to enhance the understanding of issues related to the growing Latino media and markets at the national and international levels.

The varied expertise of faculty and diverse backgrounds of both faculty and students provide a healthy learning environment in which participants learn through interaction and discussion. Courses offered in the program address a variety of cutting-edge topics such as online and social media as well as traditional topics such as mass communication theory and research methods. In addition, students select courses from outside the school to supplement their studies.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mcomm>.

## Facilities

The School of Journalism and Mass Communication is housed in historic Old Main. Situated on top of a hill, Old Main has become the University's most recognizable symbol. The building houses the campus radio station, faculty offices, smart lecture rooms, television editing facilities, state-of-the-art computer laboratories and a conference room. The office of *The University Star*, the student newspaper, is located in a building nearby. The Center for the Study of Latino Media and Markets is located in an adjacent building in ASBN 353.

Graduate student assistants are provided office space and resource room facilities. The Alkek Library offers excellent research facilities with its vast collection of books and other audio-visual resources. The library also offers the TexShare facility that allows students to borrow books from several other universities from within the state.

## Faculty

The School of Journalism and Mass Communication has 28 full-time and eight part-time faculty, 22 of whom hold terminal degrees. The graduate faculty is active in international, national, regional, and state professional associations and publishes widely in professional and scholarly journals.

## Assistantships

Competitive graduate assistantships offered with stipends and waivers of out-of-state tuition are available to qualified applicants. Assistantship responsibilities include teaching mass communication fundamentals, working in supervisory roles at student media outlets, assisting in the school's computer labs, or assisting faculty with teaching. The application for assistantship may be obtained from the departmental graduate advisor or from the following website: [www.masscomm.txstate.edu/degrees-programs/graduate/assistantship.html](http://www.masscomm.txstate.edu/degrees-programs/graduate/assistantship.html) (<http://www.masscomm.txstate.edu/degrees-programs/graduate/assistantship.html>).

## Degree Requirements

The mass communication graduate program offers its students the option of pursuing either a non-thesis track or a thesis track. In general, it is possible for the full-time student to complete the program in an 18-month period. However, most students take at least two years to complete the degree, especially if they are on a thesis track.

All students are required to make a minimum 3.0 GPA in the core classes, a minimum 3.0 GPA in the mass communication electives, and a minimum 3.0 GPA in the cognate/minor areas.

## Course Work Requirements

### General Option, Non-thesis

#### Mass Communication Core

MC 5302	Research Methods in Mass Communication	3
MC 5303	Theories of Mass Communication	3
MC 5316	Digital Media Issues	3

#### Mass Communication Electives

Choose 27 hours in consultation with graduate advisor	27
<b>Total Hours</b>	<b>36</b>

### Concentration Option, Non-thesis

#### Mass Communication Core

MC 5302	Research Methods in Mass Communication	3
MC 5303	Theories of Mass Communication	3
MC 5316	Digital Media Issues	3

#### Mass Communication Electives

Choose 18 hours in consultation with graduate advisor	18
<b>Concentration Course Work</b> <sup>1</sup>	
Take the appropriate courses per concentration (see below)	9
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> Concentrations include: digital media, global media, Latinos and media, or strategic communication. See tables below for course work requirements within each concentration.

### General Option, Thesis

#### Mass Communication Core

MC 5302	Research Methods in Mass Communication	3
MC 5303	Theories of Mass Communication	3
MC 5316	Digital Media Issues	3

#### Mass Communication Electives

Choose 18 hours in consultation with graduate advisor	18
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#### Thesis Courses

Choose a minimum 6 hours	6	
MC 5199B	Thesis	
MC 5299B	Thesis	
MC 5399A	Thesis	
MC 5399B	Thesis	
MC 5599B	Thesis	
MC 5999B	Thesis	

<b>Total Hours</b>	<b>33</b>
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## Concentration Option, Thesis

### Mass Communication Core

MC 5302	Research Methods in Mass Communication	3
MC 5303	Theories of Mass Communication	3
MC 5316	Digital Media Issues	3

### Mass Communication Electives

Choose 9 hours in consultation with graduate advisor 9

### Concentration Course Work <sup>1</sup>

Take the appropriate courses per concentration 9

### Thesis Course Work

Choose a minimum 6 hours 6

MC 5199B	Thesis	
MC 5299B	Thesis	
MC 5399A	Thesis	
MC 5399B	Thesis	
MC 5599B	Thesis	
MC 5999B	Thesis	

Total Hours 33

<sup>1</sup> Concentrations include: digital media, global media, Latinos and media, or strategic communication. See tables below for course work requirements within each concentration.

The thesis will consist of original research that contributes to the body of knowledge in mass communication – a scholarly presentation of information about mass communication processes and systems. The thesis is a scholarly study of communication behavior, the purpose of which is to broaden understanding of what mass media communicators do through what media channels, how they do it, and with what effects. It may be quantitative, relying upon an experimental design, content analysis, survey data or another appropriate approach, or it may be qualitative, relying upon historical research or another appropriate methodology.

### Optional Elective Courses

All students have the option of taking a maximum of six hours of electives outside the area of mass communication with the graduate advisor's approval. These courses need to support their special research or career-related needs and interests.

## Concentration Course Work Requirements

Students may choose to opt for digital media, global media, Latinos and media, or strategic communication concentrations.

- Students may declare one concentration only.
- Students do not have to declare a concentration if they do not wish to.
- Some courses are not offered each term.
- Some courses may also be offered at the Round Rock campus.
- Students must plan their program in consultation with the graduate advisor.

### Strategic Communication

Select at least one of the following: 3

MC 5308	Seminar in Advertising and Public Relations	
MC 5322	International Advertising and Public Relations Issues	

MC 5326	Strategic Communication Campaigns	
Select at least one of the following: 3		
MC 5304T	Health Communication Campaigns	
MC 5310	International Communication Issues	
MC 5314	Strategies in Media Management	
MC 5315	Creative Problem Solving in Mass Communication	
MC 5324	Media Writing	
MC 5325	Music Marketing	
Mass Communication Elective 3		

### Digital Media

Select three of the following: 9

MC 5301	Mass Media and Society	
MC 5312	Online Media Design	
MC 5317	Advanced Online Media	
MC 5324	Media Writing	

### Global Media

MC 5310 International Communication Issues 3

Select at least two of the following: 6

MC 5301	Mass Media and Society	
MC 5322	International Advertising and Public Relations Issues	
MC 5330	Internship in Mass Communication (Consent of graduate advisor needed) <sup>1</sup>	

Study Abroad (Consent of graduate advisor needed)  
One graduate level, three hour course with international content outside the department (Consent of graduate advisor needed)

<sup>1</sup> In an international/multinational company in the U.S. or in a company abroad.

### Latinos and Media

MC 5321 Latinos and Media 3

Select two of the following: 6

MC 5310	International Communication Issues	
MC 5319	Mass Media and Politics	
MC 5325	Music Marketing	

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the



proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of

commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Mass Communications: MC

## Courses Offered

### Mass Communication (MC)

#### MC 5155. Teaching Techniques in Mass Communication.

Required of, and open only to, graduate teaching and instructional assistants as a condition of employment. This course provides training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### MC 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MC 5255. Teaching Techniques in Mass Communication.

Required of, and open only to, graduate teaching and instructional assistants as a condition of employment. This course provides training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### MC 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**MC 5301. Mass Media and Society.**

A seminar devoted to analysis and discussion of significant contemporary issues in mass communication, including a study of the history of the development of mass communication media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5302. Research Methods in Mass Communication.**

Investigation of the tools and techniques of both qualitative and quantitative research methods used in the study of mass communication, including surveys, content analysis, experimental designs and case studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5303. Theories of Mass Communication.**

Examination of the literature of mass communication theory and discussion of theoretical approaches and models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5304T. Health Communication Campaigns.**

Provides an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. Examines persuasive approaches to behavioral change as well as audience, message and channel factors in health-campaign development. Emphasizes communication approaches, including mass media, social networking and new media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MC 5304W. Web Content Management Systems.**

Web Content Management Systems. (0-3) Students in this class will develop advanced Web building skills. Specifically, students will be introduced to various Web Content Management Systems and taught how to use these applications to manage content and build Web sites efficiently. Prerequisite or corequisite: MC 5312 or consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MC 5304Y. Feature Writing.**

This course provides an in-depth understanding of the technical expertise, research methods, interviewing skills and narrative techniques pertinent to feature writing. The course also explores how to target a feature story to a specific audience and how to submit feature stories for publication to newspapers and magazines, print and online

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5304Z. SXTXState Project.**

This course involves coverage of the South By Southwest Interactive Conference. Students apply and are selected for the project. Students prepare for the event, attend panels, interview participants and maintain the website and social media. Restricted to Mass Communication Graduate Students. Prerequisite: MC 5312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5306A. Digital Media Entrepreneurship.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology. Restricted to Mass Communication Graduate Students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5306B. The Psychology of Social Media.**

This course reviews social cognitive theories and research about the way social media users both produce and consume social media messages. It will examine clinical psychological and psychiatric effects that take place among social media users who do not have a clinical diagnosis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5306C. Code Camp II.**

Students are immersed in programming concepts relevant to communicators. Students will practice document object model manipulation using JavaScript and JQuery to create interactive Web projects

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5306D. Code Camp II.**

Students are immersed in data and visualization concepts relevant to communicators. Students will create interactive data visualization projects to be presented on the Web

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 5307. Project.**

A major communication effort, the purpose of which is to demonstrate command of the skills necessary to work at advanced levels in mass communication. For example, it may be broadcast documentary, advertising or public relations campaign, or a newspaper series. Prerequisite: Consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5308. Seminar in Advertising and Public Relations.**

This course analyzes advertising and public relations issues using an integrated communication framework. Students are introduced to the advertising and public relations decision-making process, learn what problems real organizations experience and evaluate how they resolve issues in such areas as client-agency relationships, strategic planning/management, globalization, channel integration, cyber marketing, evaluation, etc

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5309. Gender, Race, and Class and the Media.**

This course takes a theoretical approach to the study of representations of gender, race, and class in the mass media and the lives of the media professionals who belong to marginalized groups. A historical overview will be followed by an in-depth look at current conditions. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 5310. International Communication Issues.**

This course examines the media systems worldwide in different socioeconomic contexts and studies the patterns of international information flow. The course includes theories governing international communication. Students learn how and why communication takes place between different nations and the impact of this communication on individual nations. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 5311. Independent Study.**

Study of a special interest that offers academic or professional improvement and growth in the field of Mass Communication. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5312. Online Media Design.**

This course will instruct students in Web development and design and address the appropriate usage of text, graphics, sound and video on mass communication sites. The class will also address social and theoretical implications of technology, such as the digital divide, cyberlaw, e-commerce, and Web credibility and accessibility

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 5313. Media Law.**

Study of laws and regulations as they pertain to media operations and the internal and external codes that guide media behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5314. Strategies in Media Management.**

This course offers an analysis and discussion of issues involved in digital and other media ownership and operation, including monopoly and competition, labor relations, human resource management and staffing, the politics of workplace supervision and market relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5315. Creative Problem Solving in Mass Communication.**

This class examines the psychology of creativity and its application in mass communication to media management, broadcasting, advertising, and public relations. Students learn a variety of ideation techniques and structured creative problem solving methods to better understand their own creative thinking process, and how to facilitate creative thinking in groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5316. Digital Media Issues.**

This course will examine the role of digital media, including the Internet, Web and mobile technologies. Issues discussed will include social media and cyberculture research, technology diffusion, data journalism and the effects of digital technologies on society and culture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5317. Advanced Online Media.**

Students will gain advanced skills in multimedia layout and design. Techniques include audio/video editing, Flash development, and database management as practiced in the communication disciplines.

Theoretical and practical considerations of emerging technologies to the media industry will be integrated with production techniques.

Prerequisite: MC 5312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 5318. Media Ethics.**

The study of freedom and responsibilities of mass media practitioners and institutions, explored within the framework of ethical theories.

Students will learn philosophical constructs as well as contemporary ethicists. Consideration of values, codes of ethics, moral development, professionalism, and institutional constraints as applied to media of information, persuasion, and entertainment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5319. Mass Media and Politics.**

The class will review key literature in the area of mass media and politics and engage in original research related to mass media and statewide, congressional and/or presidential elections. Class focus may vary by professor, e.g. Latinos in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5321. Latinos and Media.**

An immersion into the study of Latinos, their representations in media, and media oriented to Latinos. The course will require students to engage in in-depth research about Latinos and media issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5322. International Advertising and Public Relations Issues.**

This course examines multinational advertising and public relations organizations and how they function in a global marketplace. Students learn how these organizations serve specific client needs in increasingly complex societies and cultures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5323. Current Issues in Mass Communication.**

This course examines current theoretical and professional issues in mass communication. This course may be repeated once with a different emphasis for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5324. Media Writing.**

This course is designed to impart media writing skills. Students will learn information gathering and interviewing skills, and narrative techniques pertinent to different mass media. Emphasis may vary. This course may be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5325. Music Marketing.**

This course integrates all areas of marketing management and relates media and marketing activities to the other functional areas of the music business, including music publishing, live entertainment, recording companies, and production. Strategic planning and analytical procedures for marketing managerial decisions and their relation with the media will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5326. Strategic Communication Campaigns.**

A comprehensive study of strategic communication campaign planning with emphasis on public relations and advertising. Students will combine theory and practice to develop, coordinate and evaluate advertising/public relations campaigns for key audiences. Prerequisite: MC 5308 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5327. Visual Communication.**

This course examines the principles, theories, and language of visual communication, emphasizing the evaluation and use of images in digital mass media. Students will learn about media influences on their perceptions of reality and their behavior, the elements of visual literacy, and multicultural and global perspectives in visual media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5328. Digital Video Production.**

This course involves discussion, development and analysis of documentary video and digital media. Students will explore digital media techniques used in writing and producing features, documentaries, and related programming. It is designed for the novice student with emphasis on pre- and post-production activities from research to final project

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 5329. Media Systems in Latin America.**

Students will analyze media systems Latin America within their historical, cultural and political contexts. The course provides a comparative perspective of the role of the media within the region, their national markets and international Latino market. Students will ground these investigations with theories of international communication and information flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 5330. Internship in Mass Communication.**

Students acquire on-the-job experience in an off-campus media setting where they can apply the skills and knowledge acquired through mass communication graduate course work. Requires 180 hours of work off-campus, a written report, and portfolio of work product. Graded on a credit (CR), no credit (F) basis. Prerequisite: Consent of the graduate advisor and internship coordinator

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5350. Foundations of Mass Communication.**

This course may be taken only to fulfill mass communication background requirements. Students will acquire knowledge of mass communication necessary for advanced studies. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5352. Editing for Clear Communication.**

The course explores the role of editors in gate keeping and how writing varies by audience and medium. Designed to teach students how to edit using Associated Press style while focusing on accuracy, organization, language, logic, style, and meaning. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5353. History of Mass Media.**

Students will examine the growth and role of mass media in the United States from 1690 to the present in the context of the nation's history. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5399A. Thesis.**

A scholarly study of communication behavior, the purpose of which is to broaden understanding of what mass media do, how they do it, and with what effects. It may be quantitative, historical or rely upon another appropriate methodology. No thesis credit is awarded until student has completed the thesis in MC 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Completed course work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## School of Music

Music Building Room 101  
T: 512.245.2651 F: 512.245.8181  
Email: [music@txstate.edu](mailto:music@txstate.edu)  
<http://www.music.txstate.edu/>

The principal functions of graduate education in music are considered to be the continued development of:

- Individual talents, interests, and philosophies which can be used creatively both to preserve and extend our cultural heritage;
- Professional competence in such disciplines as music teaching, composition and performance, interpretation, and evaluation of knowledge;
- Scholarly competence in the organization, interpretation, and evaluation of knowledge;
- Professional competence in the communication and dissemination of knowledge;
- Individuals with the potential to solve contemporary problems in various aspects of music.

Somos Músicos – "We are Musicians" – expresses with simplicity our solidarity of purpose and cooperation within an extraordinary community of musical artists, scholars, and composers: the students and faculty of the School of Music. Our unified mission is threefold: to make music together, to develop ourselves and our art, and to contribute value to our society.

The School of Music offers graduate work in music education, performance, Jazz performance, Latin music, conducting, music theory, composition, and music history and literature leading to the master of music (M.M.) degree.

## Faculty

The music faculty of 88 individuals includes 50 internationally active performing, conducting, or composing artists. Collectively, they have performed in more than 30 countries on virtually every continent and have won prestigious prizes such as Grammy Awards, Dallas Concerto Competition, Guillermo Wright-Vallarino National Piano Competition of Ecuador, National Finger Picking Championship, Bulgarian National Clarinet Competition, Atlanta Steinway Society Competition, Handok Piano Competition, and Southern Keyboard Competition. Their artistry can be heard on hundreds of commercial recordings as released by labels such as Deutsche Grammophon, Harmonia Mundi, Sony, Naxos,

Columbia, Capstone, Centaur, Rounder, ERM Media, and Nonesuch Records.

Our scholar faculty claim many important honors and publications in such prestigious journals as *Grove Dictionary of American Music*, *College Music Symposium*, *Choral Journal*, *Computer Music Journal*, *Journal of Band Research*, *Journal of Research in Music Education*, *Music Educators Journal*, *Journal for Music Teacher Education*, *Theoria*, *In Theory Only*, *Journal of Musicological Research*, *Perspectives of New Music*, *Southwestern Musician*, and *Handbook of Texas Music*. In 2013 alone, they published 4 books, 10 book chapters, 16 journal articles, and many other scholarly writings. As many as 15 music faculty are regularly active in seeking and obtaining external funding for their initiatives and creative projects. Over a 10-year period, this totaled more than 30 resulting grants, providing nearly \$200,000 in external funding for their activities in the School of Music.

## Facilities

As the music department has grown into a large, comprehensive School of Music, so too have the facilities expanded to keep pace with its diversity of ensembles, programs, and students.

### Music Building

At 101 Pleasant Street, the Music Building includes six classrooms, three large rehearsal rooms, and three smaller rehearsal rooms. The facility also contains a 149-seat Music Building Recital Hall, the Schneider Music Library, 40 practice rooms, an electronic piano laboratory, a multi-station music computer lab, instrument storage rooms and the administrative office suite. Some 13 faculty offices and 49 larger teaching studios are also in the main building.

### Performing Arts Center

The new Performing Arts Center on Moon Street includes an acoustically superb 312-seat recital hall. Equipped with two Steinway D concert grand pianos and a beautiful custom-built Flemish-replica harpsichord, the hall hosts performances by international guest artists, music faculty, and some student ensembles. It is a learning laboratory for student degree recitals. Another venue, the Patti Strickel Harrison Theater, provides a state-of-the-art theater with orchestra pit for Texas State Opera Theatre productions.

### Evans Auditorium

Evans is the largest performance hall on campus with a seating capacity of 933. The university's wind bands, orchestra, and University Arts events utilize Evans as a performance site. Evans also contains two Steinway concert grand pianos.

### Fire Station Studio

The Fire Station Studio is located near campus on Guadalupe Street and is available for both Texas State and non-Texas State persons to rent for commercial purposes. The Studio houses the School of Music's sound recording technology program and contains one large recording studio, two smaller studios, and one mixing room.

### Colorado Building

Located on Pleasant Street, it houses the Balinese Gamelan and 16 additional practice rooms.



## Lampasas Hall

Offering music an additional 5 offices and 3 teaching studios, Lampasas is the second oldest building on campus and was beautifully renovated in 2012.

## Departmental Policies

Upon review of a candidate's transcript, additional background courses may be required that will not count towards the graduate degree.

## Financial Assistance

Scholarships, which may include waiver of out-of-state tuition, and graduate assistantships (with teaching duties in the department) are available to qualified applicants. For further information about financial assistance and the degree programs, please contact the director of graduate studies in music.

## Master of Music (M.M.)

- Major in Music (p. 888)
- Major in Music Education (p. 900)

## Minors

- Music (p. 911)
- Music Education (p. 911)

## Certificate

- Music Performance (p. 911)

## Master of Music (M.M.), Major in Music

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mus.html>.

### Degree Requirements

In consultation with the director of graduate studies in music, each full-time student is normally expected to enroll in the appropriate ensemble(s) generally offered in the fall and spring terms. Students must take Introduction to Graduate Studies in Music (MU 5334) within their first year of studies.

Before prospective graduate students are approved for work towards the M.M. degree in a **performance** or **conducting** specialization, they must audition for the applied faculty in the appropriate area.

Graduate students in **music theory and composition** must enroll in Counterpoint and Orchestration (MU 5330B) as requisite background studies if these classes or their equivalents are not taken in an undergraduate degree program. In addition, prospective **composition** majors must submit a portfolio of original works while prospective **music theory** and **music history/literature** majors must submit a portfolio of papers and/or writing samples. Graduate students in **history and literature** must take a minimum of eight credits in one foreign language as required course work if this study was not included in an undergraduate degree program.

## Course Work Requirements

The M.M. degree is a 36-hour program with core, major field, and elective hours. In addition, opportunities are provided for independent study with professors in their areas of specialization.

### Music Core

All music majors take the following:

#### Required Courses

MU 5334	Introduction to Graduate Study in Music	3
MU 5350	Musical Styles	3

#### Music Literature Core Studies

Choose 6 hours in consultation with graduate advisor		6
MU 5310	Music Literature of the Baroque	
MU 5314	Survey of Twentieth-Century Music	
MU 5315	Music Literature, Middle Ages and Renaissance	
MU 5316	Opera History	
MU 5318	Song Literature	
MU 5320	Music Literature, Viennese Classical	
MU 5340	Music Literature, Nineteenth-Century Romantic	
MU 5358	Advanced Musicianship	
MU 5359	Post-Tonal Music Analysis	
MU 5360	Music in the United States	
MU 5361	Methods and Methodologies of Music Analysis	
MU 5375J	Foundations of Ethnomusicology/Musicology	

Total Hours		12
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### Concentration Requirements

In addition to completing the core requirements, music majors must select and complete a concentration from the following options:

Specialization	Thesis
Choral Conducting	None
Composition	None
History and Literature	Required
Instrumental Conducting	None
Jazz Performance	None
Keyboard, String or Guitar Performance	None
Latin Music Performance	None
Music Theory	Required
Piano Pedagogy	None
Voice Performance	None
Woodwind, Brass or Percussion Performance	None

### Choral Conducting Concentration

#### Major Field Applied Studies

MUSP 5337	Advanced Conducting	3
MUSP 5227	Applied Conducting (Taken twice)	4
MUSP 5127	Applied Conducting	1
MUSE 5128	Conducting Seminar (Taken three times)	3
MUSP 5101	Graduate Recital	1

#### Electives



Choose 12 hours in consultation with graduate advisor	12
<b>Total Hours</b>	<b>24</b>

### Composition Concentration

#### Major Field Applied Studies

MU 5192 Graduate Recital	1
or MUSP 5101 Graduate Recital	

#### Composition Courses

Choose 11 hours from the following:	11
MUSP 5180 Applied Composition	
MUSP 5280 Applied Composition	
MUSP 5380 Applied Composition	
MUSP 5185 Electro-acoustic Music	
MUSP 5285 Electro-acoustic Music	
MUSP 5385 Electro-acoustic Music	

#### Electives

Choose 12 hours in consultation with graduate advisor	12
<b>Total Hours</b>	<b>24</b>

### History and Literature Concentration with Thesis

#### Additional Courses in Music Literature Core Studies

Choose 6 hours in consultation with graduate advisor	6
MU 5310 Music Literature of the Baroque	
MU 5314 Survey of Twentieth-Century Music	
MU 5315 Music Literature, Middle Ages and Renaissance	
MU 5316 Opera History	
MU 5318 Song Literature	
MU 5320 Music Literature, Viennese Classical	
MU 5340 Music Literature, Nineteenth-Century Romantic	
MU 5358 Advanced Musicianship	
MU 5359 Post-Tonal Music Analysis	
MU 5360 Music in the United States	
MU 5361 Methods and Methodologies of Music Analysis	
MU 5375J Foundations of Ethnomusicology/Musicology	

#### Electives

Choose 12 hours in consultation with graduate advisor	12
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#### Thesis Course Work

Choose a minimum of 6 hours	6
MU 5199B Thesis	
MU 5299B Thesis	
MU 5399A Thesis	
MU 5399B Thesis	
MU 5599B Thesis	
MU 5999B Thesis	
<b>Total Hours</b>	<b>24</b>

### Instrumental Conducting Concentration

#### Major Field Applied Studies

MUSP 5337 Advanced Conducting	3
MUSP 5227 Applied Conducting (Taken twice)	4
MUSP 5127 Applied Conducting	1
MUSE 5128 Conducting Seminar (Taken three times)	3
MU 5192 Graduate Recital	1

#### Electives

Choose 12 hours in consultation with graduate advisor	12
<b>Total Hours</b>	<b>24</b>

### Jazz Performance Concentration

#### Major Field Applied Studies

Applied Lessons (Courses chosen in consultation with graduate advisor)	8
MUSP 5101 Graduate Recital	1
MU 5342 Jazz Pedagogy	3
MU 5344 Jazz Arranging	3
MU 5343 Jazz Improvisation	3
MUSP 5130 Applied Keyboard	1
MUSE 5127 Jazz Combo	1
Large Ensemble (Choose 4 hours)	4
MUSE 5160 Jazz Ensemble	
MUSE 5161 Jazz Orchestra	
MUSE 5162 Jazz Lab Band	
<b>Total Hours</b>	<b>24</b>

### Keyboard, String, or Guitar Performance Concentration

#### Major Field Applied Studies

MUSP 5101 Graduate Recital	1
Applied Instrument - Choose 8 hours in consultation with graduate advisor	8
Ensemble - Choose 3 hours in consultation with graduate advisor	3
Electives - Choose 12 hours in consultation with graduate advisor	12
<b>Total Hours</b>	<b>24</b>

### Latin Music Performance Concentration

MU 5353 Ensemble Rehearsal Techniques	3
MUSP 5101 Graduate Recital	1
Applied Instrument - Choose 8 hours in consultation with graduate advisor	8
Electives - Choose 12 hours in consultation with graduate advisor	12
<b>Total Hours</b>	<b>24</b>

### Music Theory Concentration with Thesis

MU 5355 Pedagogy of Theory and Comprehensive Musicianship	3
Independent Study (Choose 3 hours)	3
MU 5113 Independent Study in Music	
MU 5213 Independent Study in Music	
MU 5313 Independent Study in Music	
MU 5317 Independent Study in Music	
Electives - Choose 12 hours in consultation with graduate advisor	12

#### Thesis Course Work

Choose a minimum of 6 hours	6
MU 5199B Thesis	
MU 5299B Thesis	
MU 5399A Thesis	
MU 5399B Thesis	
MU 5599B Thesis	

MU 5999B	Thesis	
Total Hours		24

### Piano Pedagogy and Performance Concentration

#### Major Field Applied Studies

MU 5254	Piano Pedagogy I	2
MU 5255	Piano Pedagogy II	2
MUSP 5135	Piano Pedagogy Internship	1
Topics in Advanced Music Research and Analysis (Choose 1 course)		3
MU 5316	Opera History	
MU 5318	Song Literature	
MU 5358	Advanced Musicianship	
MU 5359	Post-Tonal Music Analysis	
MU 5361	Methods and Methodologies of Music Analysis	
MU 5375J	Foundations of Ethnomusicology/Musicology	
MUSP 5101	Graduate Recital	1
Applied Keyboard (Choose 3 hours)		3
MUSP 5130	Applied Keyboard	
MUSP 5230	Applied Keyboarding	
MUSP 5330	Applied Keyboard	
Electives - Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### Voice Performance Concentration

#### Major Field Applied Studies

MUSP 5101	Graduate Recital	1
Applied Voice - Choose 8 hours in consultation with graduate advisor		8
Opera Workshop - Choose 3 hours in consultation with graduate advisor		3
Electives - Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### Woodwind, Brass, or Percussion Performance Concentration

#### Major Field Applied Studies

MUSP 5101	Graduate Recital	1
Applied Lessons - Choose 8 hours in consultation with graduate advisor		8
Ensemble - Choose 3 hours in consultation with graduate advisor		3
Electives - Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### Performance and Pedagogy Concentration

#### Major Field Applied Studies

MU 5334	Introduction to Graduate Study in Music	3
Choose 6 hours from:		6
MU 5310	Music Literature of the Baroque	
MU 5314	Survey of Twentieth-Century Music	
MU 5315	Music Literature, Middle Ages and Renaissance	
MU 5320	Music Literature, Viennese Classical	
MU 5340	Music Literature, Nineteenth-Century Romantic	
MU 5360	Music in the United States	
MU 5350	Musical Styles	3
Applied Lessons - Choose 8 hours in consultation with graduate advisor		8

MUSP 5101	Graduate Recital	1
Choose 6 hours from:		6
MU 5362	Instrumental Pedagogy I	
MU 5363	Instrumental Pedagogy II: Teaching Internship	
MU 5331	Vocal Pedagogy I: Voice Science	
MU 5332	Vocal Pedagogy II: Methods	
MU 5364	Intelligent Music Teaching	3
Electives - Choose 6 hours in consultation with graduate advisor		6
MUSE 5126	Chamber Music (May be repeated for up to 3 hours credit.)	
MU 5353	Ensemble Rehearsal Techniques	
Choose 3 hours independent study in consultation with graduate advisor or MU 5317		
MU 5355	Pedagogy of Theory and Comprehensive Musicianship	
MU 5345	Piano Literature I	
MU 5346	Piano Literature II	
MU 5329	Psychology of Music	
Total Hours		36

## Comprehensive Examination

All candidates within the graduate music program must pass a comprehensive oral (viva voce) examination. The students will be given a maximum of two attempts in order to pass this examination before being eligible for graduation. Candidates who fail to pass the comprehensive oral examination upon the first try may appeal for re-examination. The re-examination will be administered during the term following the first attempt. Exceptions to this policy are rare and must be approved by the director of graduate studies in music and by the director of the school of music. Failure to pass the required comprehensive oral examination upon the second attempt shall prevent the student from being eligible for graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State

IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.

2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Music: MU (p. 891), MUSE (p. 896), MUSP (p. 898)

## Courses Offered

### Music (MU)

#### MU 5113. Independent Study in Music.

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MU 5130A. Writing About Music.

Focusing on basic writing skills, research, and the use and documentation of sources. Course centers on the process of writing about music. Besides written exercises, the assignments include the study of such professional writing samples as concert reviews, program abstracts, and research essays. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

#### MU 5130B. Diction for Singers.

An in-depth study of the pronunciation of singing in Italian, German, English, and French incorporating the International Phonetic Alphabet through the use of lecture and laboratory sessions for practical application. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

#### MU 5141. Kodály Level I – Conducting.

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on conducting folk songs and classical canons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5143. Kodály Level I – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5145. Kodály Level II – Conducting.**

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on independence of the left and right hands to communicate tempo, dynamics, cues, and character

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5147. Kodály Level II – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature. Students will also explore suitable instrumental literature through performance on the recorder

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5149. Kodály Level III – Conducting.**

Advanced conducting laboratory with application to 2-, 3-, and 4-part choral works

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5151. Kodály Level III – Research and Retrieval.**

Research of international folk music as applied to philosophy as applied to Kodály music education program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5156. Mariachi Arranging.**

This course is a study of Mariachi repertoire and arranging techniques for a Mariachi ensemble. Topics will cover instrument ranges, orchestration techniques, and styles. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 5157. Mariachi Ensemble Teaching Lab.**

This course provides students with the knowledge to become effective directors of Mariachi ensembles within the public school/university systems. Mariachi curriculum/repertoire/rehearsal techniques appropriate to middle school/high school/post-high school ensembles are discussed and applied within the setting of a performing ensemble. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 5182. Practicum in Music Instruction.**

Instruction techniques for teaching and instructional assistants concerning selected problems in the teaching of music in the classroom, private instruction, and ensemble environments. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MU 5192. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5213. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5230A. Music Theory.**

A study of the materials of counterpoint and harmony as evaluated through listening and analysis of literature, and application through composition. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5230B. Aural Learning.**

Development and application of theory concepts through singing, playing, and dictation. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5240. Kodály Level I – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5242. Kodály Level I – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to kindergarteners and first graders

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5244. Kodály Level II – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on analysis of melodic content: intervals, range, and scales

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5246. Kodály Level II – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to second and third grade children

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5248. Kodály Level III – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on advanced studies in rhythm, counterpoint, and harmony

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5250. Kodály Level III – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to upper elementary, junior high, and high school

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5254. Piano Pedagogy I.**

History, methods, and materials of piano pedagogy. Includes the application of technical and musical fundamentals to beginning levels of teaching. Prerequisites: Piano pedagogy or piano performance majors or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5255. Piano Pedagogy II.**

Advanced methods and materials of piano pedagogy. Includes the application of technical and musical fundamentals to intermediate and advanced levels of teaching. Prerequisites: Piano Pedagogy I or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5310. Music Literature of the Baroque.**

Style characteristics and literature of the music of 1600-1750 with special emphasis on Bach and Handel

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5313. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5314. Survey of Twentieth-Century Music.**

Emphasis on music of the modern period and its development from music of earlier periods. Numerous examples of vocal and instrumental works in both large and small forms are used to illustrate twentieth-century styles and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5315. Music Literature, Middle Ages and Renaissance.**

Historical, stylistic, and analytical study of western art music from about 450 to 1600

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5316. Opera History.**

This course will analyze and evaluate operas selected from the genre's history from the late sixteenth century to the present. Topics include opera historiography; operatic conventions; opera composers, librettists and plots; musical dramaturgy; and cultural context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5317. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5318. Song Literature.**

This course is an historical survey of the art song, emphasizing Western European and American repertoires. Students will articulate stylistic differences within the art song repertory, use analytical methods appropriate for a variety of text settings, and develop greater proficiency at writing about music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5320. Music Literature, Viennese Classical.**

Style analysis of music literature from 1750 to 1830 with emphasis on Haydn, Mozart, and Beethoven

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5322. Instrumental Techniques and Materials.**

Evaluation of teaching methods, materials, and literature of wind and string instruments. Prerequisite: Music 3217 or the equivalent of Undergraduate Instrumental Conducting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5323. Vocal Music Education Methods.**

Study of the anatomy of the human voice and evaluation of the scientific data and historical beliefs concerning voice pedagogy with emphasis in teaching voice in the class, private studio, as well as within a variety of choral settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MU 5324. Seminar in Music Curriculum and Methodology.**

Evaluation of teaching methods, learning processes, curriculum, and research in music education as a basis for improving music pedagogy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5325. Research in Music Education I.**

Examination of methodologies, techniques, and procedures for interpreting and conducting research in music education. Relevant studies in music education will be critiqued, with an emphasis on preparation of a research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5326. Research in Music Education II.**

A continuation and culmination of a research project in the field of music education as developed and proposed in MU 5325. Prerequisite: MU 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5328. Foundations of Music Education.**

The cognitive psychology, historical perspective, and philosophical issues that provide the basis for contemporary music education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5329. Psychology of Music.**

This course investigates the psychological foundations of music and examines interdisciplinary approaches to the study of music and the human experience. Topics will include music perception, physiological responses to music, music and the brain, musical attributes, music learning, music therapy, and the measurement of musical behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5330A. History and Analysis of Music.**

A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5330B. Advanced Theory.**

Principles of form and analysis, counterpoint, orchestration, and contemporary analytic techniques developed through in-depth study of musical repertoire. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5331. Vocal Pedagogy I: Voice Science.**

This course explores the anatomy/physiology of the human voice, the acoustic properties that govern resonance, vocal health, and philosophy of singing and teaching. Co-requisites: MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5332. Vocal Pedagogy II: Methods.**

This is a comparative study of various pedagogical methods and ideas, including historical and contemporary treatises. Students will explore exercises and vocalizes for general voice development, address and correct specific vocal problems, and engage in peer teaching.

Prerequisite: MU 5331 with a grade of "B" or better. Co-requisites:

MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5334. Introduction to Graduate Study in Music.**

Techniques and materials of research, emphasizing bibliography, library usage, collection, and interpretation of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MU 5340. Music Literature, Nineteenth-Century Romantic.**

Music literature of the period from 1830 to 1910 with analysis of styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5341. History of Jazz.**

This course is a chronological survey and historical analysis of the major soloists, ensembles, composers, recordings, and stylistic trends of all major jazz styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5342. Jazz Pedagogy.**

Jazz pedagogy is an in-depth study of the history, methodologies, resources, and techniques of jazz pedagogy and the development of jazz ensemble rehearsal skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5343. Jazz Improvisation.**

This course is a detailed study of the evolution of melodic, harmonic, and rhythmic structures used by jazz improvisers and composers from the 1930s to present day

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5344. Jazz Arranging.**

This course provides a comprehensive study of jazz composition, arranging, and improvisation theory, emphasizing writing for jazz ensembles using harmony, scales, and improvisation in a variety of styles, and providing necessary skills to be a successful jazz or commercial composer/arranger

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5345. Piano Literature I.**

This course is designed to expand first-hand familiarity with the literature for the keyboard from the Baroque to Early Romantic era (Bach to Schumann). It will be divided into five chronological segments, discussing the major composers and their contemporaries. Ten composition genres will be discussed during the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5346. Piano Literature II.**

This course is designed to expand first-hand familiarity with the literature for the piano, which will be divided into six chronological segments.

These segments will discuss the most significant composers and their contemporaries in the 19th and 20th centuries and their major piano compositions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5350. Musical Styles.**

Developing a broader musical understanding through critical listening, technical analyses, and written assignments in various musical styles, including the late classical, romantic, and present eras. Prerequisite: B or higher in MU 5357 or a passing grade on the Graduate Music Theory Placement Exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5351. Introduction to Schenkerian Analysis.**

An introduction to the techniques and methods of music analysis as developed by Heinrich Schenker (1868-1935). This course will cover reductive analysis, structural levels in tonal music, and graphing techniques. Prerequisite: MU 5357 with a grade of "B" or higher, or passing grade on music theory entrance exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5352. Foundations of Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the discipline of musicology. Prerequisite: MU 5334 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5353. Ensemble Rehearsal Techniques.**

Course is designed for performance ensemble conductors. Includes supervision, administration, and rehearsal techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5355. Pedagogy of Theory and Comprehensive Musicianship.**

Developing teaching methods and broader understanding through critical study of materials, organization, techniques, and problems of music theory and comprehensive musicianship courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MU 5357. Graduate Music Theory and Musicianship.**

Graduate-level studies in music theory and aural skills. The course covers melody, harmony, counterpoint, form, as well as sight-singing, performing, and dictation. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MU 5358. Advanced Musicianship.**

This course is designed to develop graduate-level skills in music sight reading, dictation, fundamental keyboard skills, and keyboard harmonization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5359. Post-Tonal Music Analysis.**

This course is the study and application of methodologies and terminology that are used to analyze post-tonal concert music of the 20th and 21st centuries. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5360. Music in the United States.**

A survey of the music and musical development in this country from pre-Columbian times to the present. Folk music, popular music, and jazz will be considered as well as traditional and experimental styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5361. Methods and Methodologies of Music Analysis.**

This course will cover the examination of selected analytical techniques, methods and methodologies, critical approaches, or musical repertoires, including semiotic analysis, computer-assisted music analysis, analysis of thematic processes, functional analysis, phrase structure analysis, as well as category and feature analysis. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5362. Instrumental Pedagogy I.**

This course explores instrument-specific pedagogy from the beginner through the advanced levels. Students will peruse instrument-specific pedagogical works, solo literature, and articles, and will complete a teaching assignment requiring them to implement pedagogical techniques, diagnose common performance problems, and suggest solutions. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 pr MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5363. Instrumental Pedagogy II: Teaching Internship.**

This class provides students with supervised teaching experience. In this capstone course, students will apply pedagogical principles for instruction on their primary instrument in the private lesson setting. Their teaching will be monitored and evaluated by an applied professor throughout the semester. Prerequisite: MU 5362 with a grade of "B" or better. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 pr MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5364. Intelligent Music Teaching.**

This course focuses on fundamental philosophical principles of effective instrumental music instruction and includes application of those principles in teaching. Students will develop a realistic perspective of their strengths and weaknesses as a developing professional and will develop business skills necessary to create a successful private lesson studio

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5365. Computing in Music.**

Development of concepts and skills related to current computer technology in music. Exploration and use of computer software, MIDI, and other productivity tools for application to music education, music administration, music research, and music composition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5366. Salsa Arranging.**

Analysis and arranging music for a Salsa ensemble. Topics will cover instrument ranges, orchestration techniques, and styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5367. History of Music in the Caribbean.**

This course is a study of the musical panorama of the Spanish-speaking Caribbean; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, includes coverage of the scope and methods of research in the area of Caribbean music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5368. History of Music in Mexico.**

This course is a study of the musical panorama of Mexico; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, including coverage of the scope and methods of research in the area of Mexican music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5369. History of Music in Latin America.**

This course is a study of the musical panorama of Latin America; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are introduced and discussed in historical, socio-political, and stylistic context. It also includes an introduction to the scope and methods of research in Latin American music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5375J. Foundations of Ethnomusicology/Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the disciplines of ethnomusicology and musicology. Prerequisite: MU 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MU 5375L. Techniques of Contemporary Music.**

This course surveys a cross-section of important technical innovations and developments in twentieth-century music, with special focus on music since 1945. Students will read documents outlining aesthetics, analyze music written in a variety of styles, write analytical papers, and using a variety of techniques, compose exercises. Enrollment requires a passing grade on the Graduate Music Theory Placement Exam or Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Music 5399B. Students working toward the M.M. degree with a thesis are expected to enroll in thesis each semester in which faculty supervision is received.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Music Ensemble (MUSE)****MUSE 5101. Basketball Band.**

The Bobcat Basketball Band performs for all home men's and women's basketball games that do not fall over a university break. The group travels for all postseason tournaments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5102. Salsa Del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5103. Texas State Mariachi.**

Performing ensemble specializing in Mexican folk music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5104. Panorama Steel Drum Band.**

A performing ensemble specializing in Caribbean steel drum band music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5105. Vocalibre.**

A select vocal ensemble specializing in chamber music, including madrigal or jazz literature. May be repeated for credit. Prerequisite: Enrollment in major choral ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5106. Opera Theater.**

Opera Theatre explores advanced opera performance techniques designed for the graduate vocal performer. Students will analyze and strengthen acting and interpretive techniques through work in full productions of operas, operettas, and classical musical theater repertoire of all style periods, building skills necessary for a professional operatic career. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5108. Orquesta del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeatable for credit. (MULT)

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required| Multicultural Content

**Grade Mode:** Standard Letter

**MUSE 5120. Bobcat Marching Band.**

This ensemble performs at all home and select away football games, utilizing traditional and corps-style marching. The ensemble is focused on delivering entertaining and high-powered halftime shows while supporting Bobcat Football. The band also performs in exhibitions for high school band events. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5123. Concert Band.**

This ensemble provides playing experiences for non-music majors and music majors who want to improve their skills and serve as a lab ensemble for conducting students. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5124. Women's Choir.**

Performing ensemble specializing in choral literature for women's voices. May be repeated for credit

**1 Credit Hour. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5125. Men's Choir.**

Performing ensemble specializing in choral literature for men's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5126. Chamber Music.**

Small group performing ensembles focusing on chamber literature of mixed and similar instrumental music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5127. Jazz Combo.**

A small performance ensemble designed to develop improvisational skills and individual musical creativity through performance of standard jazz literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5128. Conducting Seminar.**

A seminar based course focusing on conducting technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit. Prerequisite: Conducting Major or permission by the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5129. Afro-Caribbean Lab.**

This course is an experimental ensemble of flexible size and instrumentation that specializes in advanced arranging, performance, and improvisation involving Afro-Caribbean styles and rhythms. An audition is required for placement in this ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 5130. Wind Symphony.**

Major instrumental ensemble comprised of the most outstanding wind and percussion students who are selected by audition. The group is dedicated to the performance of the finest wind repertoire, whether a contemporary works for winds, or transcriptions from the orchestral repertoire. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5131. Symphonic Winds.**

Major instrumental ensemble consisting primarily of music majors and talented non-music majors. This ensemble performs a broad range of full ensemble repertoire, representative of all historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5140. Texas State Chorale.**

Auditioned major choral ensemble specializing in performances of literature from the Renaissance and 20th Century. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5141. University Singers.**

Major choral ensemble that performs a variety of literature, including masterworks from the 17th Century to the present. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MUSE 5150. Texas State Symphony Orchestra.**

A full symphony orchestra that performs standard orchestra literature, as well as oratorio, concerto, and opera accompaniments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5160. Jazz Ensemble.**

The jazz-based ensemble performs advanced arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5161. Jazz Orchestra.**

The jazz-based ensemble performs intermediate arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5162. Jazz Lab Band.**

The jazz-based ensemble performs beginning arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5170. Accompanying.**

A coaching seminar for pianists to develop reading and accompanying skills. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5180. Mystery for Modern Music.**

A seminar-based course focusing on the performance and analysis of 20th century music in all styles and media. May be repeated for credit.

Prerequisite: Music (Composition Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5185. Modern Music Ensemble.**

A performance-based course focusing on the performance of modern music in all styles and media. May be repeated for additional credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5190. Guitar Ensemble.**

Chamber guitar ensemble designed to provide interaction with fellow guitarists, develop musicianship as an ensemble performer, and to familiarize the student with music from different periods through a variety of literature. May be repeated for credit. Prerequisite: Music (Guitar Performance Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Music Performance (MUSP)****MUSP 5101. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5127. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5135. Piano Pedagogy Internship.**

Supervised teaching experience. Practical application of methods, techniques, and materials of piano pedagogy. Prerequisite: Instructor's permission

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5164. Mariachi Melodia Techniques.**

This course provides students with the fundamentals of playing and teaching the melodic instruments associated with the Mariachi ensemble, with specific emphasis on the voice, violin, and trumpet. Topics will cover history, tuning, and stylistic techniques associated with each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 5165. Mariachi Armonia Techniques.**

This course provides students with the fundamentals of playing and teaching the rhythm/harmony instruments in the Mariachi ensemble, with specific emphasis in the guitarrón, vihuela/guitar, and the harp. Topics will cover history, tuning, strumming, and stylistic techniques specific to each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5166. Latin Music Methods.**

This course provides students with knowledge that is essential to become effective directors of Mariachi and Salsa ensembles. Instruments, styles, repertory, and resources that are related to these ensembles will be discussed

**1 Credit Hour. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 5170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5175. Afro-Cuban Hand Drumming.**

The fundamentals of playing and teaching Afro-Cuban Drums. Topics will cover history and knowledge of styles of the various Afro-Cuban percussion instruments

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5185. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5227. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5230. Applied Keyboarding.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5285. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5327. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5335. Keyboard Skills.**

Advanced keyboard skills, styles, performance techniques, and professional health for pianists

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5337. Advanced Conducting.**

Music performance class designed for further development of baton technique, score reading, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5360. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5385. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Master of Music (M.M.), Major in Music Education

### Major Program

Before prospective graduate students are approved for one of the music education specializations, they are expected to have certification to teach public school music and to have an interview with the appropriate music education faculty. Those students who do not possess a teacher's certificate must satisfy a deficiency plan in music education if they are to pursue the M.M. degree with one of the specializations under music education.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mused.html>.

### Degree Requirements

The M.M. in music education is a 36-hour program with core, major field, and elective hours. In addition, opportunities are provided for independent study with professors in their areas of specialization.

#### Music Education Core

All music education majors take the following:

##### Required Courses

MU 5334	Introduction to Graduate Study in Music	3
MU 5350	Musical Styles	3

##### Music Literature Core Studies

Choose 6 hours in consultation with graduate advisor		6
MU 5310	Music Literature of the Baroque	
MU 5314	Survey of Twentieth-Century Music	
MU 5315	Music Literature, Middle Ages and Renaissance	
MU 5320	Music Literature, Viennese Classical	

MU 5340	Music Literature, Nineteenth-Century Romantic	
MU 5360	Music in the United States	
MU 5316	Opera History	
MU 5361	Methods and Methodologies of Music Analysis	
MU 5318	Song Literature	
MU 5359	Post-Tonal Music Analysis	
MU 5358	Advanced Musicianship	
MU 5375J	Foundations of Ethnomusicology/Musicology	
Total Hours		12

## Areas of Specialization

In addition to the required core, the following specializations are offered:

Specialization	Thesis
Choral Music	None
Instrumental Music	None
General Music	None
Kodaly Pedagogy	None
Latin Music	None

All of the specializations require final research projects. The Kodály pedagogy program, approved by the Organization of American Kodály Education (OAKE), leads to certification.

### Choral Music Concentration

#### Major Field Applied Studies

Choose 12 hours in consultation with graduate advisor:		12
MU 5324	Seminar in Music Curriculum and Methodology	
MU 5325	Research in Music Education I	
MU 5328	Foundations of Music Education	
MUSP 5337	Advanced Conducting	

#### Electives

Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### General Music Concentration

#### Major Field Applied Studies

Choose 12 hours in consultation with graduate advisor:		12
MU 5324	Seminar in Music Curriculum and Methodology	
MU 5325	Research in Music Education I	
MU 5328	Foundations of Music Education	
MUSP 5337	Advanced Conducting	

#### Electives

Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### Instrumental Music Concentration

#### Major Field Applied Studies

Choose 12 hours in consultation with graduate advisor:		12
MU 5324	Seminar in Music Curriculum and Methodology	
MU 5325	Research in Music Education I	
MU 5328	Foundations of Music Education	
MUSP 5337	Advanced Conducting	

#### Electives

Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

### Kodály Pedagogy Concentration

#### Major Field Applied Studies

Kodaly Level I Emphasis Courses (Choose 6 hours)		6
MU 5141	Kodály Level I – Conducting	
MU 5143	Kodály Level I – Materials	
MU 5240	Kodály Level I – Musicianship and Sol-fa	
MU 5242	Kodály Level I – Pedagogy	
Kodaly Level II Emphasis Courses (Choose 6 hours)		6
MU 5145	Kodály Level II – Conducting	
MU 5147	Kodály Level II – Materials	
MU 5244	Kodály Level II – Musicianship and Sol-fa	
MU 5246	Kodály Level II – Pedagogy	
Kodaly Level III Emphasis Courses (Choose 6 hours)		6
MU 5149	Kodály Level III – Conducting	
MU 5151	Kodály Level III – Research and Retrieval	
MU 5248	Kodály Level III – Musicianship and Sol-fa	
MU 5250	Kodály Level III – Pedagogy	
Elective Courses (Choose 6 hours)		6
MU 5355	Pedagogy of Theory and Comprehensive Musicianship	
MU 5365	Computing in Music	
MU 5316	Opera History	
MU 5361	Methods and Methodologies of Music Analysis	
MU 5318	Song Literature	
MU 5359	Post-Tonal Music Analysis	
MU 5358	Advanced Musicianship	
MU 5375J	Foundations of Ethnomusicology/Musicology	
Total Hours		24

### Latin Music Concentration

#### Major Field Applied Studies

Choose 9 hours		9
MU 5324	Seminar in Music Curriculum and Methodology	
MU 5325	Research in Music Education I	
MU 5328	Foundations of Music Education	

#### Major Field Applied Studies II

Choose 3 hours		3
MUSP 5337	Advanced Conducting	
MU 5353	Ensemble Rehearsal Techniques	

#### Elective Courses

Choose 12 hours in consultation with graduate advisor		12
Total Hours		24

## Comprehensive Examination

All candidates within the graduate music program must pass a comprehensive oral (viva voce) examination. The students will be given a maximum of two attempts in order to pass this examination before being eligible for graduation. Candidates who fail to pass the comprehensive oral examination upon the first try may appeal for re-examination. The re-examination will be administered during the term following the first attempt. Exceptions to this policy are rare and must be approved by the

director of graduate studies in music and by the director of the school of music. Failure to pass the required comprehensive oral examination upon the second attempt shall prevent the student from being eligible for graduation.

Master's level courses in Music: MU (p. 902), MUSE (p. 907), MUSP (p. 908)

## Courses Offered

### Music (MU)

#### **MU 5113. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5130A. Writing About Music.**

Focusing on basic writing skills, research, and the use and documentation of sources. Course centers on the process of writing about music. Besides written exercises, the assignments include the study of such professional writing samples as concert reviews, program abstracts, and research essays. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

#### **MU 5130B. Diction for Singers.**

An in-depth study of the pronunciation of singing in Italian, German, English, and French incorporating the International Phonetic Alphabet through the use of lecture and laboratory sessions for practical application. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

#### **MU 5141. Kodály Level I – Conducting.**

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on conducting folk songs and classical canons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5143. Kodály Level I – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5145. Kodály Level II – Conducting.**

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on independence of the left and right hands to communicate tempo, dynamics, cues, and character

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5147. Kodály Level II – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature. Students will also explore suitable instrumental literature through performance on the recorder

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5149. Kodály Level III – Conducting.**

Advanced conducting laboratory with application to 2-, 3-, and 4-part choral works

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5151. Kodály Level III – Research and Retrieval.**

Research of international folk music as applied to philosophy as applied to Kodály music education program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **MU 5156. Mariachi Arranging.**

This course is a study of Mariachi repertoire and arranging techniques for a Mariachi ensemble. Topics will cover instrument ranges, orchestration techniques, and styles. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **MU 5157. Mariachi Ensemble Teaching Lab.**

This course provides students with the knowledge to become effective directors of Mariachi ensembles within the public school/university systems. Mariachi curriculum/repertoire/rehearsal techniques appropriate to middle school/high school/post-high school ensembles are discussed and applied within the setting of a performing ensemble.

This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **MU 5182. Practicum in Music Instruction.**

Instruction techniques for teaching and instructional assistants concerning selected problems in the teaching of music in the classroom, private instruction, and ensemble environments. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### **MU 5192. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5213. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5230A. Music Theory.**

A study of the materials of counterpoint and harmony as evaluated through listening and analysis of literature, and application through composition. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5230B. Aural Learning.**

Development and application of theory concepts through singing, playing, and dictation. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5240. Kodály Level I – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5242. Kodály Level I – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to kindergarteners and first graders

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5244. Kodály Level II – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on analysis of melodic content: intervals, range, and scales

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5246. Kodály Level II – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to second and third grade children

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5248. Kodály Level III – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on advanced studies in rhythm, counterpoint, and harmony

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5250. Kodály Level III – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to upper elementary, junior high, and high school

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5254. Piano Pedagogy I.**

History, methods, and materials of piano pedagogy. Includes the application of technical and musical fundamentals to beginning levels of teaching. Prerequisites: Piano pedagogy or piano performance majors or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5255. Piano Pedagogy II.**

Advanced methods and materials of piano pedagogy. Includes the application of technical and musical fundamentals to intermediate and advanced levels of teaching. Prerequisites: Piano Pedagogy I or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5310. Music Literature of the Baroque.**

Style characteristics and literature of the music of 1600-1750 with special emphasis on Bach and Handel

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5313. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5314. Survey of Twentieth-Century Music.**

Emphasis on music of the modern period and its development from music of earlier periods. Numerous examples of vocal and instrumental works in both large and small forms are used to illustrate twentieth-century styles and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MU 5315. Music Literature, Middle Ages and Renaissance.**

Historical, stylistic, and analytical study of western art music from about 450 to 1600

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5316. Opera History.**

This course will analyze and evaluate operas selected from the genre's history from the late sixteenth century to the present. Topics include opera historiography; operatic conventions; opera composers, librettists and plots; musical dramaturgy; and cultural context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5317. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5318. Song Literature.**

This course is an historical survey of the art song, emphasizing Western European and American repertoires. Students will articulate stylistic differences within the art song repertory, use analytical methods appropriate for a variety of text settings, and develop greater proficiency at writing about music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5320. Music Literature, Viennese Classical.**

Style analysis of music literature from 1750 to 1830 with emphasis on Haydn, Mozart, and Beethoven

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5322. Instrumental Techniques and Materials.**

Evaluation of teaching methods, materials, and literature of wind and string instruments. Prerequisite: Music 3217 or the equivalent of Undergraduate Instrumental Conducting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5323. Vocal Music Education Methods.**

Study of the anatomy of the human voice and evaluation of the scientific data and historical beliefs concerning voice pedagogy with emphasis in teaching voice in the class, private studio, as well as within a variety of choral settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5324. Seminar in Music Curriculum and Methodology.**

Evaluation of teaching methods, learning processes, curriculum, and research in music education as a basis for improving music pedagogy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5325. Research in Music Education I.**

Examination of methodologies, techniques, and procedures for interpreting and conducting research in music education. Relevant studies in music education will be critiqued, with an emphasis on preparation of a research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5326. Research in Music Education II.**

A continuation and culmination of a research project in the field of music education as developed and proposed in MU 5325. Prerequisite: MU 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5328. Foundations of Music Education.**

The cognitive psychology, historical perspective, and philosophical issues that provide the basis for contemporary music education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5329. Psychology of Music.**

This course investigates the psychological foundations of music and examines interdisciplinary approaches to the study of music and the human experience. Topics will include music perception, physiological responses to music, music and the brain, musical attributes, music learning, music therapy, and the measurement of musical behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5330A. History and Analysis of Music.**

A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5330B. Advanced Theory.**

Principles of form and analysis, counterpoint, orchestration, and contemporary analytic techniques developed through in-depth study of musical repertoire. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5331. Vocal Pedagogy I: Voice Science.**

This course explores the anatomy/physiology of the human voice, the acoustic properties that govern resonance, vocal health, and philosophy of singing and teaching. Co-requisites: MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5332. Vocal Pedagogy II: Methods.**

This is a comparative study of various pedagogical methods and ideas, including historical and contemporary treatises. Students will explore exercises and vocalizes for general voice development, address and correct specific vocal problems, and engage in peer teaching. Prerequisite: MU 5331 with a grade of "B" or better. Co-requisites: MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5334. Introduction to Graduate Study in Music.**

Techniques and materials of research, emphasizing bibliography, library usage, collection, and interpretation of data  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Time Conflicts Permitted  
**Grade Mode:** Standard Letter

**MU 5340. Music Literature, Nineteenth-Century Romantic.**

Music literature of the period from 1830 to 1910 with analysis of styles  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5341. History of Jazz.**

This course is a chronological survey and historical analysis of the major soloists, ensembles, composers, recordings, and stylistic trends of all major jazz styles  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5342. Jazz Pedagogy.**

Jazz pedagogy is an in-depth study of the history, methodologies, resources, and techniques of jazz pedagogy and the development of jazz ensemble rehearsal skills  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5343. Jazz Improvisation.**

This course is a detailed study of the evolution of melodic, harmonic, and rhythmic structures used by jazz improvisers and composers from the 1930s to present day  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5344. Jazz Arranging.**

This course provides a comprehensive study of jazz composition, arranging, and improvisation theory, emphasizing writing for jazz ensembles using harmony, scales, and improvisation in a variety of styles, and providing necessary skills to be a successful jazz or commercial composer/arranger  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5345. Piano Literature I.**

This course is designed to expand first-hand familiarity with the literature for the keyboard from the Baroque to Early Romantic era (Bach to Schumann). It will be divided into five chronological segments, discussing the major composers and their contemporaries. Ten composition genres will be discussed during the course  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5346. Piano Literature II.**

This course is designed to expand first-hand familiarity with the literature for the piano, which will be divided into six chronological segments. These segments will discuss the most significant composers and their contemporaries in the 19th and 20th centuries and their major piano compositions  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5350. Musical Styles.**

Developing a broader musical understanding through critical listening, technical analyses, and written assignments in various musical styles, including the late classical, romantic, and present eras. Prerequisite: B or higher in MU 5357 or a passing grade on the Graduate Music Theory Placement Exam  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5351. Introduction to Schenkerian Analysis.**

An introduction to the techniques and methods of music analysis as developed by Heinrich Schenker (1868-1935). This course will cover reductive analysis, structural levels in tonal music, and graphing techniques. Prerequisite: MU 5357 with a grade of "B" or higher, or passing grade on music theory entrance exam  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5352. Foundations of Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the discipline of musicology. Prerequisite: MU 5334 with a grade of "B" or better  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5353. Ensemble Rehearsal Techniques.**

Course is designed for performance ensemble conductors. Includes supervision, administration, and rehearsal techniques  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5355. Pedagogy of Theory and Comprehensive Musicianship.**

Developing teaching methods and broader understanding through critical study of materials, organization, techniques, and problems of music theory and comprehensive musicianship courses  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Time Conflicts Permitted  
**Grade Mode:** Standard Letter

**MU 5357. Graduate Music Theory and Musicianship.**

Graduate-level studies in music theory and aural skills. The course covers melody, harmony, counterpoint, form, as well as sight-singing, performing, and dictation. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**MU 5358. Advanced Musicianship.**

This course is designed to develop graduate-level skills in music sight reading, dictation, fundamental keyboard skills, and keyboard harmonization  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5359. Post-Tonal Music Analysis.**

This course is the study and application of methodologies and terminology that are used to analyze post-tonal concert music of the 20th and 21st centuries. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5360. Music in the United States.**

A survey of the music and musical development in this country from pre-Columbian times to the present. Folk music, popular music, and jazz will be considered as well as traditional and experimental styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5361. Methods and Methodologies of Music Analysis.**

This course will cover the examination of selected analytical techniques, methods and methodologies, critical approaches, or musical repertoires, including semiotic analysis, computer-assisted music analysis, analysis of thematic processes, functional analysis, phrase structure analysis, as well as category and feature analysis. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5362. Instrumental Pedagogy I.**

This course explores instrument-specific pedagogy from the beginner through the advanced levels. Students will peruse instrument-specific pedagogical works, solo literature, and articles, and will complete a teaching assignment requiring them to implement pedagogical techniques, diagnose common performance problems, and suggest solutions. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 or MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5363. Instrumental Pedagogy II: Teaching Internship.**

This class provides students with supervised teaching experience. In this capstone course, students will apply pedagogical principles for instruction on their primary instrument in the private lesson setting. Their teaching will be monitored and evaluated by an applied professor throughout the semester. Prerequisite: MU 5362 with a grade of "B" or better. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 or MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5364. Intelligent Music Teaching.**

This course focuses on fundamental philosophical principles of effective instrumental music instruction and includes application of those principles in teaching. Students will develop a realistic perspective of their strengths and weaknesses as a developing professional and will develop business skills necessary to create a successful private lesson studio

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5365. Computing in Music.**

Development of concepts and skills related to current computer technology in music. Exploration and use of computer software, MIDI, and other productivity tools for application to music education, music administration, music research, and music composition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5366. Salsa Arranging.**

Analysis and arranging music for a Salsa ensemble. Topics will cover instrument ranges, orchestration techniques, and styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5367. History of Music in the Caribbean.**

This course is a study of the musical panorama of the Spanish-speaking Caribbean; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, includes coverage of the scope and methods of research in the area of Caribbean music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5368. History of Music in Mexico.**

This course is a study of the musical panorama of Mexico; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, including coverage of the scope and methods of research in the area of Mexican music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5369. History of Music in Latin America.**

This course is a study of the musical panorama of Latin America; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are introduced and discussed in historical, socio-political, and stylistic context. It also includes an introduction to the scope and methods of research in Latin American music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5375J. Foundations of Ethnomusicology/Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the disciplines of ethnomusicology and musicology. Prerequisite: MU 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MU 5375L. Techniques of Contemporary Music.**

This course surveys a cross-section of important technical innovations and developments in twentieth-century music, with special focus on music since 1945. Students will read documents outlining aesthetics, analyze music written in a variety of styles, write analytical papers, and using a variety of techniques, compose exercises. Enrollment requires a passing grade on the Graduate Music Theory Placement Exam or Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Music 5399B. Students working toward the M.M. degree with a thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Music Ensemble (MUSE)****MUSE 5101. Basketball Band.**

The Bobcat Basketball Band performs for all home men's and women's basketball games that do not fall over a university break. The group travels for all postseason tournaments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5102. Salsa Del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5103. Texas State Mariachi.**

Performing ensemble specializing in Mexican folk music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5104. Panorama Steel Drum Band.**

A performing ensemble specializing in Caribbean steel drum band music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5105. Vocalibre.**

A select vocal ensemble specializing in chamber music, including madrigal or jazz literature. May be repeated for credit. Prerequisite: Enrollment in major choral ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5106. Opera Theater.**

Opera Theatre explores advanced opera performance techniques designed for the graduate vocal performer. Students will analyze and strengthen acting and interpretive techniques through work in full productions of operas, operettas, and classical musical theater repertoire of all style periods, building skills necessary for a professional operatic career. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5108. Orquesta del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeatable for credit. (MULT)

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required| Multicultural Content

**Grade Mode:** Standard Letter

**MUSE 5120. Bobcat Marching Band.**

This ensemble performs at all home and select away football games, utilizing traditional and corps-style marching. The ensemble is focused on delivering entertaining and high-powered halftime shows while supporting Bobcat Football. The band also performs in exhibitions for high school band events. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5123. Concert Band.**

This ensemble provides playing experiences for non-music majors and music majors who want to improve their skills and serve as a lab ensemble for conducting students. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5124. Women's Choir.**

Performing ensemble specializing in choral literature for women's voices. May be repeated for credit

**1 Credit Hour. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5125. Men's Choir.**

Performing ensemble specializing in choral literature for men's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MUSE 5126. Chamber Music.**

Small group performing ensembles focusing on chamber literature of mixed and similar instrumental music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5127. Jazz Combo.**

A small performance ensemble designed to develop improvisational skills and individual musical creativity through performance of standard jazz literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5128. Conducting Seminar.**

A seminar based course focusing on conducting technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit. Prerequisite: Conducting Major or permission by the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5129. Afro-Caribbean Lab.**

This course is an experimental ensemble of flexible size and instrumentation that specializes in advanced arranging, performance, and improvisation involving Afro-Caribbean styles and rhythms. An audition is required for placement in this ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 5130. Wind Symphony.**

Major instrumental ensemble comprised of the most outstanding wind and percussion students who are selected by audition. The group is dedicated to the performance of the finest wind repertoire, whether a contemporary works for winds, or transcriptions from the orchestral repertoire. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5131. Symphonic Winds.**

Major instrumental ensemble consisting primarily of music majors and talented non-music majors. This ensemble performs a broad range of full ensemble repertoire, representative of all historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5140. Texas State Chorale.**

Auditioned major choral ensemble specializing in performances of literature from the Renaissance and 20th Century. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5141. University Singers.**

Major choral ensemble that performs a variety of literature, including masterworks from the 17th Century to the present. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5150. Texas State Symphony Orchestra.**

A full symphony orchestra that performs standard orchestra literature, as well as oratorio, concerto, and opera accompaniments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5160. Jazz Ensemble.**

The jazz-based ensemble performs advanced arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5161. Jazz Orchestra.**

The jazz-based ensemble performs intermediate arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5162. Jazz Lab Band.**

The jazz-based ensemble performs beginning arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5170. Accompanying.**

A coaching seminar for pianists to develop reading and accompanying skills. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5180. Mysterium for Modern Music.**

A seminar-based course focusing on the performance and analysis of 20th century music in all styles and media. May be repeated for credit. Prerequisite: Music (Composition Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5185. Modern Music Ensemble.**

A performance-based course focusing on the performance of modern music in all styles and media. May be repeated for additional credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5190. Guitar Ensemble.**

Chamber guitar ensemble designed to provide interaction with fellow guitarists, develop musicianship as an ensemble performer, and to familiarize the student with music from different periods through a variety of literature. May be repeated for credit. Prerequisite: Music (Guitar Performance Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Music Performance (MUSP)****MUSP 5101. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter



**MUSP 5120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5127. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5135. Piano Pedagogy Internship.**

Supervised teaching experience. Practical application of methods, techniques, and materials of piano pedagogy. Prerequisite: Instructor's permission

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5164. Mariachi Melodia Techniques.**

This course provides students with the fundamentals of playing and teaching the melodic instruments associated with the Mariachi ensemble, with specific emphasis on the voice, violin, and trumpet. Topics will cover history, tuning, and stylistic techniques associated with each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 5165. Mariachi Armonia Techniques.**

This course provides students with the fundamentals of playing and teaching the rhythm/harmony instruments in the Mariachi ensemble, with specific emphasis in the guitarrón, vihuela/guitar, and the harp. Topics will cover history, tuning, strumming, and stylistic techniques specific to each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5166. Latin Music Methods.**

This course provides students with knowledge that is essential to become effective directors of Mariachi and Salsa ensembles. Instruments, styles, repertory, and resources that are related to these ensembles will be discussed

**1 Credit Hour. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 5170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5175. Afro-Cuban Hand Drumming.**

The fundamentals of playing and teaching Afro-Cuban Drums. Topics will cover history and knowledge of styles of the various Afro-Cuban percussion instruments

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5185. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5227. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5230. Applied Keyboarding.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5285. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5327. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5335. Keyboard Skills.**

Advanced keyboard skills, styles, performance techniques, and professional health for pianists

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5337. Advanced Conducting.**

Music performance class designed for further development of baton technique, score reading, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5360. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5385. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Minor in Music

**A minimum of twelve hours of graduate-level music studies are required for a minor in music.** Graduate students majoring in other departments should meet with the director of graduate studies in music in order to determine the course assignments to be included in their official degree audits.

## Minor in Music Education

**A minimum of twelve hours of graduate-level music studies are required for a minor in music education.** Graduate students majoring in other departments should meet with the director of graduate studies in music in order to determine the course assignments to be included in their official degree audits.

## Certificate in Music Performance

Course Work Requirements

**Required Course**

MU 5192	Graduate Recital	1
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**Applied Lessons**

Choose 6 hours		6
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MUSP 5320	Applied Voice
MUSP 5330	Applied Keyboard
MUSP 5340	Applied Woodwind
MUSP 5350	Applied Brass
MUSP 5360	Applied String
MUSP 5370	Applied Percussion

**Music Ensemble Electives**

Choose 2 courses		2
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MUSE 5102	Salsa Del Rio
MUSE 5103	Texas State Mariachi
MUSE 5104	Panorama Steel Drum Band
MUSE 5105	VocaLibre

MUSE 5106	Opera Theater
MUSE 5123	Concert Band
MUSE 5124	Women's Choir
MUSE 5125	Men's Choir
MUSE 5126	Chamber Music
MUSE 5127	Jazz Combo
MUSE 5130	Wind Symphony
MUSE 5131	Symphonic Winds
MUSE 5140	Texas State Chorale
MUSE 5141	University Singers
MUSE 5150	Texas State Symphony Orchestra
MUSE 5160	Jazz Ensemble
MUSE 5161	Jazz Orchestra
MUSE 5162	Jazz Lab Band
MUSE 5170	Accompanying
MUSE 5180	Mysterium for Modern Music
MUSE 5190	Guitar Ensemble

**Additional Graduate Music Electives**

Choose 6 hours from MU, MUSE, or MUSP	6
<b>Total Hours</b>	<b>15</b>

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Department of Theatre and Dance

Theatre Center Room 101

T: 512.245.2147 F: 512.245.8440

<http://www.theatreanddance.txstate.edu/>

At Texas State, you will work closely with faculty who have earned national and international recognition. Texas State faculty have acted on Broadway, starred in television shows, worked at Tony-Award winning regional theatres, had their designs displayed internationally, written books and articles, and have had their plays produced in New York and abroad. We are large enough to have a full complement of highly qualified specialists, yet small enough to provide personal attention to our students.

Classes take place in the university's distinctive Theatre Center and new Performing Arts Center. Together these spaces include four theatres that provide students the opportunity to experience a variety of production styles. They house completely equipped scene and costume shops, a computer drafting laboratory, a video editing laboratory, and classrooms with seating for 30 to 110 students, and extensive audiovisual resources for both research and teaching. There are ample opportunities for graduate student participation in productions. Recent productions include *Urinetown*, *Richard III*, and *Water by the Spoonful*.

Our goals are:

- to provide a stimulating and creative environment in which students may deepen their aesthetic experience, and to provide studies in a broad range of theatre skills and principles,

- to preserve in living form the great heritage of dramatic literature, and to encourage experimentation in new forms and ideas of staging, and
- to make a significant cultural impact on the campus and throughout the region served by the university.

## Facilities

The theatre program is housed in the distinctive Theatre Center. In addition to the main theatre and a studio theatre, the center houses completely equipped scene and costume shops, twenty-one offices, seven classrooms, a computer-drafting laboratory, and intensive audiovisual resources for both research and teaching.

## Financial Assistance

Graduate assistantships offered at competitive stipends with waiver of out-of-state tuition are available to qualified applicants. Contact the department for more information.

## Master of Arts (M.A.)

- Major in Theatre (p. 912)

## Master of Fine Arts (M.F.A.)

- Major in Theatre (p. 917)

## Minor

- Theatre (p. 922)

## Master of Arts (M.A.), Major in Theatre

### Major Programs

A master of arts (M.A.) with a major in theatre offers specializations in history-criticism and dramaturgy. The M.A. will prepare students to teach at the secondary or community college level, to continue graduate education at the doctoral level, or to seek a career in community or professional theatre.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/th.html>.

### Degree Requirements

Thirty to thirty-nine semester credit hours are required for the degree, depending on the area of specialization. A minimum of six hours is taken in a minor or cognate area.

### Dramaturgy Concentration with Minor

#### Required Core Course Work

TH 5301	Drama Research	3
TH 5367	Studies in Dramatic Theory and Criticism	3

#### Dramaturgy Concentration Course Work

TH 5360	Problems in Theatre	3
TH 5365	Backgrounds of Modern Drama	3
TH 5369	Contemporary World Theatre and Drama	3
TH 5371	Classical and Renaissance Drama	3

TH 5372	Theory and Practice of Dramaturgy	3
TH 5398	Final Creative Project	3
Directing Electives (Choose 2)		6
TH 5320	Directing Theatre Activities	
TH 5363	Directing for Film	
TH 5364	Stage Directing	
TH 5366	Directing Styles	
<b>Minor Course Work</b>		6
Total Hours		36

### History and Criticism Concentration with Minor and Thesis

#### Required Core Course Work

TH 5301	Drama Research	3
TH 5367	Studies in Dramatic Theory and Criticism	3

#### History and Criticism Concentration Course Work

TH 5365	Backgrounds of Modern Drama	3
TH 5371	Classical and Renaissance Drama	3
TH 5369	Contemporary World Theatre and Drama	3
TH 5372	Theory and Practice of Dramaturgy	3

#### Thesis Course Work

Choose a minimum of 6 hours		6
TH 5199B	Thesis	
TH 5299B	Thesis	
TH 5399A	Thesis	
TH 5399B	Thesis	
TH 5599B	Thesis	
TH 5999B	Thesis	

#### Minor Course Work

Total Hours		30
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If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

### Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form

be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or

PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Theatre: TH

## Courses Offered

### Theatre (TH)

#### TH 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### TH 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### TH 5301. Drama Research.

An examination of problems and research techniques in drama. Historical, critical, descriptive, and experimental research approaches will be surveyed and basic procedures in research report writing will be considered. Required of theatre majors  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### TH 5302. Text Analysis, Research and Interpretation.

This course reviews various methods of analysis of a dramatic text. This includes inductive, deductive, structural, and methodical approaches. It also examines techniques for production research and explores issues of interpretation that affect the development of a play's translation into a production on stage  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### TH 5303. Conceptualization and Composition.

This course investigates conceiving and developing a production concept and/or production context. It also explores how the concept/context is useful in the formation of a plan of staging. Finally, it examines potential blocking and staging implications that result from conceptualization and context, as well as composition implications  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**TH 5310. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course covers topics related to employment responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**TH 5312. Director/Designer Collaboration.**

This course examines the nature of director/designer collaboration. Areas studied and developed include the director's visual perceptions, visual interpretations, and visual choices. In addition, attention is focused on discovering and uncovering these characteristics embedded in theatrical texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5313. History of Directing and Scenography.**

This course is a historical survey of the work of directors and designers. Particular emphasis will be on seminal production plans for notable directors and designers of the 20th and 21st centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5320. Directing Theatre Activities.**

Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes. May be repeated with different emphasis for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5323. Shakespeare Through Performance.**

This intensive summer study abroad program immerses students in the language and culture of Shakespeare's plays. Incorporating a performance-based approach to the study of Shakespeare, this course includes theatrical workshops taught by professionals at leading international theatres, including the Royal Shakespeare Company

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5324. Shakespeare: Text and Context.**

This intensive study abroad program immerses students in the language and culture of Shakespeare's plays. In Stratford, academic workshops are led by scholars from the Shakespeare Birthplace Trust. Through immersion in the cultural environment in which the plays were produced, students gain insight into the context that shaped Shakespeare's theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5330. Stage Management.**

An in-depth seminar in stage management, including organization, techniques, and practices for managing stage productions from initial planning through performance

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5331. Television Writing.**

This course focuses on the techniques of writing for television, including both half-hour situational comedies and hour-long dramas. Students will pitch story ideas, develop beat sheets, write treatments, and complete written scripts. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5332. Stage Properties.**

This course trains students in the craft, artistry and management of stage properties for careers in theatre, film and the entertainment industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5334. Figure Drawing for Theatre Design.**

This course covers drawing the human figure using traditional media, technique and application. Intended for the theatre designer, this course places special emphasis on aspects of drapery as they relate to the human figure

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TH 5338. Advanced Stage Lighting.**

Graduate lighting design is a continuation of the principles covered in Lighting Design (undergraduate). This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color; script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5340. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry. Consent of Instructor required

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 5341. Dramatization and Adaptation.**

This course focuses on the development of new theatrical scripts based on existing stories and source material. Students will explore a variety of potential source materials, pitch adaptation ideas, and complete a written script. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5342. MFA Studio I.**

This course focuses on work with actors. Students will explore various rehearsal methods, motifs and strategies. Students will direct two short scenes for class and explore effective ways of working with actors.

In addition, students will observe directors and acting coaches in the department work with and coach actors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5343. MFA Studio II.**

Builds upon the work of MFA Studio I. This course examines additional techniques for working with actors as well as tools the director can use to shape each unit of performance text in order to build a dramatic story on stage. Students will analyze, rehearse and perform a one-act play. Prerequisite: TH 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5345. Advanced Studies in Costume Design.**

Costume problems for entire productions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5346. Historical Costume Research.**

This course is a study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5347. Advanced Costume Construction.**

A graduate course on the advanced level that studies the construction of costumes for the stage. Advanced techniques in sewing, pattern drafting/design as well as accessories/crafts construction is included

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5350. Second Year Project.**

Students in the second year of the MFA in Theatre will direct, design, or write for a departmental production. The course includes a written report of the project that demonstrates an understanding of the creative process of the chosen discipline. Prerequisite: Completed at least 18 graduate hours towards their M.F.A

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5351. History of Architecture and Interiors for Theatrical Design.**

This course is a study of architecture and interiors throughout history as it impacts design for theatre. This course will look at periods of design from ancient Egypt to the early Twentieth Century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5352. MFA Studio III.**

MFA Studio III is the student's second year project. The course includes all phases of directing a play, from conception and research, to rehearsal and performance. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5353. MFA Studio IV.**

A primary focus of the course is on experimental theatre. Students rehearse and perform scene work from 20th and 21st century plays, and put together a final experimental performance project. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5354. Playwriting.**

A seminar in the art and craft of playwriting, from initial idea through a completed draft of a play. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5355. Scene Painting.**

Theory and practice of scene and costume painting as developed in the Italian Renaissance and continuing into new media available today. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5356. Advanced Theatre Drafting.**

A study of computer drafting techniques and procedures used in the preparation of design and technical drawings for theatrical scenery, costumes, and lighting

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5357. Scene Design.**

Seminar on design, emphasizing presentation and justification of executed renderings or models for selected plays. Emphasis on styles of staging, settings, lighting and properties, and their relationship to the complete production. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5358. Screenwriting.**

This course offers a comprehensive study of the art and craft of writing screenplays. During a semester of intensive writing, readings, script analyses, and critiques, writers complete assignments in storytelling, character, structure, and script development. Each writer completes a full-length screenplay as the capstone project for the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5359. Advanced Screenwriting.**

This course focuses on the development and revision of full-length screenplays. May be repeated for credit with different emphasis.

Prerequisite: TH 5358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5360. Problems in Theatre.**

Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5361. Oregon Shakespeare Festival Intensive.**

This course examines theatre production with a specific focus on directors and directing at this country's largest Shakespeare theatre, the Oregon Shakespeare Festival. Students will study issues of translating the current seasons' nine plays from script to stage, as well as analyzing the perspectives and choices of each director's production

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TH 5363. Directing for Film.**

An in-depth examination of directing theories and procedures for film with practical filming and editing exercises. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5364. Stage Directing.**

Development of skills in analysis, research, staging, and production, with practical experience provided by directing scenes

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5365. Backgrounds of Modern Drama.**

An analysis of those developments in dramatic literature that formed the basis of modern drama. Primary emphasis will be on nineteenth-and twentieth-century European and American drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5366. Directing Styles.**

A study of directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: TH 5364 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5367. Studies in Dramatic Theory and Criticism.**

The study of dramatic theory and criticism from Aristotle to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5368. American Theatre and Drama.**

Studies in the development of the American theatre and drama from colonial days to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5369. Contemporary World Theatre and Drama.**

Studies of current trends in world theatre and drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5370. Studies in Advanced Creative Dramatics for Children.**

Studies of the methods of creative dramatics and their use in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5371. Classical and Renaissance Drama.**

Seminar in Greek, French Neoclassical, and English Renaissance theatre, with intensive examination of selected works by Sophocles, Euripides, Shakespeare, and Marlowe. Primary focus will be on analysis of the plays as performance texts, and on the historical cultural environments in which the plays were created and first performed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5372. Theory and Practice of Dramaturgy.**

Study of the practical application of historical research and textual analysis in the production of period plays and new works. Emphasis upon the dramaturg as an instrument of collaboration between members of the artistic team and as a facilitator of audience outreach

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5373. Advanced Film Directing.**

An in-depth examination of narrative filmmaking that includes screenplay analysis, storyboarding, scheduling the shoot, directorial techniques, staging actors, camera placement, filming on location, and editing.

Prerequisite: TH 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5374. Art History for Theatrical Design.**

This course focuses on major art movements since the Renaissance. Baroque, Rococo, Neoclassicism, Romanticism, Realism, Impressionism, Expressionism, Surrealism, and other movements from throughout the world are studied in relationship to their use by theatrical designers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5375. Advanced Playwriting.**

This course focuses on an in-depth study of the techniques of playwriting and the variety of styles that a playwright might employ. The course culminates with the writing of a full-length play. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5377. Studies in Advanced Theatre Directing.**

A study of directors, theories, and problems of directing in the contemporary theatre. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5378. Play Development Lab.**

This course provides a laboratory workshop development process for new plays. It provides a structured environment for rigorously revising student-written works. Prerequisites: TH 5375 or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5382. MFA Studio V.**

This course offers a study of and experience in preparing and directing Shakespeare: from inception of a given approach to handling the language issues to performance. This course examines how professional directors actually work on production for major Shakespeare theatres in America

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 5383. MFA Studio VI.**

This course continues the styles work started in MFA Studio V. It focuses on directing projects from multiple periods and styles of plays. Scenes will be drawn from several periods of dramatic literature including Ancient Greece, the English Restoration, Moliere, Georgian, and other High Comedy texts. Prerequisite: TH 5382

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5387. Directing Practicum.**

Study of and experience in choosing, preparing, and directing a theatre production from analysis to performance. Attention is given to theatre organization and management. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5397. Diagnostic Creative Project.**

This project involves the design of a relatively simple theatrical production that is produced by University Theatre. Complete production plans are prepared under faculty guidance, followed by faculty evaluation and debriefing after production. Requires Department Approval

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5398. Final Creative Project.**

To be taken the last year of training. This project requires the student to direct a major University Theatre production. The student must demonstrate mastery of directing. A complete written report of the project must be approved by a faculty committee. The report is a part of the final examination for the degree of Master of Arts with a major in Theatre for students in Directing

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Theatre 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5640. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry; it is intended for students who do a full-time internship over the summer or during a regular full semester. Consent of instructor required

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Fine Arts (M.F.A.), Major in Theatre

### Major Programs

A master of fine arts (M.F.A.) with a major in theatre will prepare students for the field of theatre, more specifically to direct theatre, lead a theatre, or to teach theatre. This degree will provide students with a strong theoretical and practical education in preparing productions so that they might have long, fruitful careers in theatre or higher education. It will also hone student skills in critical thinking, problem solving, creative analysis, and application of the craft to real world projects so that they might excel in today's quickly changing and ever diverse theatre and academic environments.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/th.html>.

### Degree Requirements

The M.F.A. program is a three-year course of study that requires 60 semester credit hours. Students pursuing the M.F.A. in theatre may choose from the following three concentrations: directing, design, or dramatic writing.

### Course Work Requirements

#### Directing Concentration

##### Required Core Courses

TH 5302	Text Analysis, Research and Interpretation	3
TH 5303	Conceptualization and Composition	3
TH 5312	Director/Designer Collaboration	3
TH 5313	History of Directing and Scenography	3
TH 5342	MFA Studio I	3
TH 5343	MFA Studio II	3
TH 5352	MFA Studio III	3
TH 5353	MFA Studio IV	3
TH 5382	MFA Studio V	3
TH 5383	MFA Studio VI	3
TH 5398	Final Creative Project	3
TH 5340	Professional Internship	3

TH 5357	Scene Design	3
TH 5365	Backgrounds of Modern Drama	3
TH 5367	Studies in Dramatic Theory and Criticism	3
TH 5369	Contemporary World Theatre and Drama	3
TH 5371	Classical and Renaissance Drama	3

**Prescribed Elective Courses**

Choose 9 hours from the following:		9
TH 5323	Shakespeare Through Performance	
TH 5324	Shakespeare: Text and Context	
TH 5330	Stage Management	
TH 5338	Advanced Stage Lighting	
TH 5340	Professional Internship (May be repeated; see advisor)	
TH 5345	Advanced Studies in Costume Design	
TH 5347	Advanced Costume Construction	
TH 5354	Playwriting	
TH 5355	Scene Painting	
TH 5359	Advanced Screenwriting	
TH 5360	Problems in Theatre	
TH 5361	Oregon Shakespeare Festival Intensive	
TH 5363	Directing for Film	
TH 5372	Theory and Practice of Dramaturgy	
TH 5373	Advanced Film Directing	
TH 5375	Advanced Playwriting	
TH 5378	Play Development Lab	
Total Hours		60

**Design Concentration****Required Core Courses**

TH 5302	Text Analysis, Research and Interpretation	3
TH 5303	Conceptualization and Composition	3
TH 5312	Director/Designer Collaboration	3
TH 5313	History of Directing and Scenography	3
TH 5342	MFA Studio I	3
TH 5343	MFA Studio II	3
TH 5352	MFA Studio III	3
TH 5353	MFA Studio IV	3
TH 5382	MFA Studio V	3
TH 5383	MFA Studio VI	3
TH 5398	Final Creative Project	3

**Prescribed Elective Courses**

Choose 27 hours from the following:		27
TH 5338	Advanced Stage Lighting	
TH 5340	Professional Internship (May be repeated; see advisor)	
TH 5345	Advanced Studies in Costume Design	
TH 5346	Historical Costume Research	
TH 5347	Advanced Costume Construction	
TH 5351	History of Architecture and Interiors for Theatrical Design	
TH 5355	Scene Painting	
TH 5356	Advanced Theatre Drafting	
TH 5357	Scene Design	

TH 5359	Advanced Screenwriting	
TH 5360	Problems in Theatre	
TH 5361	Oregon Shakespeare Festival Intensive	
TH 5365	Backgrounds of Modern Drama	
TH 5367	Studies in Dramatic Theory and Criticism	
TH 5369	Contemporary World Theatre and Drama	
TH 5371	Classical and Renaissance Drama	
Total Hours		60

**Dramatic Writing Concentration****Required Core Courses**

TH 5354	Playwriting	3
TH 5375	Advanced Playwriting (Taken twice)	6
TH 5331	Television Writing	3
TH 5358	Screenwriting	3
TH 5359	Advanced Screenwriting	3
TH 5341	Dramatization and Adaptation	3
TH 5398	Final Creative Project	3
TH 5302	Text Analysis, Research and Interpretation	3
TH 5365	Backgrounds of Modern Drama	3
TH 5367	Studies in Dramatic Theory and Criticism	3
TH 5369	Contemporary World Theatre and Drama	3
TH 5371	Classical and Renaissance Drama	3
TH 5342	MFA Studio I	3
TH 5343	MFA Studio II	3
TH 5352	MFA Studio III	3
TH 5312	Director/Designer Collaboration	3

**Prescribed Core Courses**

Choose 9 hours from the following		9
TH 5323	Shakespeare Through Performance	
TH 5324	Shakespeare: Text and Context	
TH 5340	Professional Internship	
TH 5361	Oregon Shakespeare Festival Intensive	
TH 5363	Directing for Film	
TH 5372	Theory and Practice of Dramaturgy	
TH 5373	Advanced Film Directing	
TH 5378	Play Development Lab	
Advisor Approved Directing Elective		
Advisor Approved English Elective		
Total Hours		60

Master's level courses in Theatre: TH

**Courses Offered  
Theatre (TH)****TH 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**TH 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5301. Drama Research.**

An examination of problems and research techniques in drama. Historical, critical, descriptive, and experimental research approaches will be surveyed and basic procedures in research report writing will be considered. Required of theatre majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5302. Text Analysis, Research and Interpretation.**

This course reviews various methods of analysis of a dramatic text. This includes inductive, deductive, structural, and methodical approaches. It also examines techniques for production research and explores issues of interpretation that affect the development of a play's translation into a production on stage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5303. Conceptualization and Composition.**

This course investigates conceiving and developing a production concept and/or production context. It also explores how the concept/context is useful in the formation of a plan of staging. Finally, it examines potential blocking and staging implications that result from conceptualization and context, as well as composition implications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5310. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course covers topics related to employment responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**TH 5312. Director/Designer Collaboration.**

This course examines the nature of director/designer collaboration. Areas studied and developed include the director's visual perceptions, visual interpretations, and visual choices. In addition, attention is focused on discovering and uncovering these characteristics embedded in theatrical texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5313. History of Directing and Scenography.**

This course is a historical survey of the work of directors and designers. Particular emphasis will be on seminal production plans for notable directors and designers of the 20th and 21st centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5320. Directing Theatre Activities.**

Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes. May be repeated with different emphasis for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5323. Shakespeare Through Performance.**

This intensive summer study abroad program immerses students in the language and culture of Shakespeare's plays. Incorporating a performance-based approach to the study of Shakespeare, this course includes theatrical workshops taught by professionals at leading international theatres, including the Royal Shakespeare Company

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5324. Shakespeare: Text and Context.**

This intensive study abroad program immerses students in the language and culture of Shakespeare's plays. In Stratford, academic workshops are led by scholars from the Shakespeare Birthplace Trust. Through immersion in the cultural environment in which the plays were produced, students gain insight into the context that shaped Shakespeare's theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5330. Stage Management.**

An in-depth seminar in stage management, including organization, techniques, and practices for managing stage productions from initial planning through performance

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5331. Television Writing.**

This course focuses on the techniques of writing for television, including both half-hour situational comedies and hour-long dramas. Students will pitch story ideas, develop beat sheets, write treatments, and complete written scripts. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5332. Stage Properties.**

This course trains students in the craft, artistry and management of stage properties for careers in theatre, film and the entertainment industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5334. Figure Drawing for Theatre Design.**

This course covers drawing the human figure using traditional media, technique and application. Intended for the theatre designer, this course places special emphasis on aspects of drapery as they relate to the human figure

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TH 5338. Advanced Stage Lighting.**

Graduate lighting design is a continuation of the principles covered in Lighting Design (undergraduate). This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color; script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5340. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry. Consent of Instructor required

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 5341. Dramatization and Adaptation.**

This course focuses on the development of new theatrical scripts based on existing stories and source material. Students will explore a variety of potential source materials, pitch adaptation ideas, and complete a written script. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5342. MFA Studio I.**

This course focuses on work with actors. Students will explore various rehearsal methods, motifs and strategies. Students will direct two short scenes for class and explore effective ways of working with actors. In addition, students will observe directors and acting coaches in the department work with and coach actors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5343. MFA Studio II.**

Builds upon the work of MFA Studio I. This course examines additional techniques for working with actors as well as tools the director can use to shape each unit of performance text in order to build a dramatic story on stage. Students will analyze, rehearse and perform a one-act play. Prerequisite: TH 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5345. Advanced Studies in Costume Design.**

Costume problems for entire productions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5346. Historical Costume Research.**

This course is a study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5347. Advanced Costume Construction.**

A graduate course on the advanced level that studies the construction of costumes for the stage. Advanced techniques in sewing, pattern drafting/design as well as accessories/crafts construction is included

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5350. Second Year Project.**

Students in the second year of the MFA in Theatre will direct, design, or write for a departmental production. The course includes a written report of the project that demonstrates an understanding of the creative process of the chosen discipline. Prerequisite: Completed at least 18 graduate hours towards their M.F.A

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5351. History of Architecture and Interiors for Theatrical Design.**

This course is a study of architecture and interiors throughout history as it impacts design for theatre. This course will look at periods of design from ancient Egypt to the early Twentieth Century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5352. MFA Studio III.**

MFA Studio III is the student's second year project. The course includes all phases of directing a play, from conception and research, to rehearsal and performance. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5353. MFA Studio IV.**

A primary focus of the course is on experimental theatre. Students rehearse and perform scene work from 20th and 21st century plays, and put together a final experimental performance project. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5354. Playwriting.**

A seminar in the art and craft of playwriting, from initial idea through a completed draft of a play. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5355. Scene Painting.**

Theory and practice of scene and costume painting as developed in the Italian Renaissance and continuing into new media available today. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5356. Advanced Theatre Drafting.**

A study of computer drafting techniques and procedures used in the preparation of design and technical drawings for theatrical scenery, costumes, and lighting

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5357. Scene Design.**

Seminar on design, emphasizing presentation and justification of executed renderings or models for selected plays. Emphasis on styles of staging, settings, lighting and properties, and their relationship to the complete production. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5358. Screenwriting.**

This course offers a comprehensive study of the art and craft of writing screenplays. During a semester of intensive writing, readings, script analyses, and critiques, writers complete assignments in storytelling, character, structure, and script development. Each writer completes a full-length screenplay as the capstone project for the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5359. Advanced Screenwriting.**

This course focuses on the development and revision of full-length screenplays. May be repeated for credit with different emphasis.

Prerequisite: TH 5358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5360. Problems in Theatre.**

Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5361. Oregon Shakespeare Festival Intensive.**

This course examines theatre production with a specific focus on directors and directing at this country's largest Shakespeare theatre, the Oregon Shakespeare Festival. Students will study issues of translating the current seasons' nine plays from script to stage, as well as analyzing the perspectives and choices of each director's production

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5363. Directing for Film.**

An in-depth examination of directing theories and procedures for film with practical filming and editing exercises. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5364. Stage Directing.**

Development of skills in analysis, research, staging, and production, with practical experience provided by directing scenes

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5365. Backgrounds of Modern Drama.**

An analysis of those developments in dramatic literature that formed the basis of modern drama. Primary emphasis will be on nineteenth- and twentieth-century European and American drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5366. Directing Styles.**

A study of directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: TH 5364 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5367. Studies in Dramatic Theory and Criticism.**

The study of dramatic theory and criticism from Aristotle to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5368. American Theatre and Drama.**

Studies in the development of the American theatre and drama from colonial days to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5369. Contemporary World Theatre and Drama.**

Studies of current trends in world theatre and drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5370. Studies in Advanced Creative Dramatics for Children.**

Studies of the methods of creative dramatics and their use in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5371. Classical and Renaissance Drama.**

Seminar in Greek, French Neoclassical, and English Renaissance theatre, with intensive examination of selected works by Sophocles, Euripides, Shakespeare, and Marlowe. Primary focus will be on analysis of the plays as performance texts, and on the historical cultural environments in which the plays were created and first performed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5372. Theory and Practice of Dramaturgy.**

Study of the practical application of historical research and textual analysis in the production of period plays and new works. Emphasis upon the dramaturg as an instrument of collaboration between members of the artistic team and as a facilitator of audience outreach

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5373. Advanced Film Directing.**

An in-depth examination of narrative filmmaking that includes screenplay analysis, storyboarding, scheduling the shoot, directorial techniques, staging actors, camera placement, filming on location, and editing.

Prerequisite: TH 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5374. Art History for Theatrical Design.**

This course focuses on major art movements since the Renaissance. Baroque, Rococo, Neoclassicism, Romanticism, Realism, Impressionism, Expressionism, Surrealism, and other movements from throughout the world are studied in relationship to their use by theatrical designers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5375. Advanced Playwriting.**

This course focuses on an in-depth study of the techniques of playwriting and the variety of styles that a playwright might employ. The course culminates with the writing of a full-length play. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5377. Studies in Advanced Theatre Directing.**

A study of directors, theories, and problems of directing in the contemporary theatre. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5378. Play Development Lab.**

This course provides a laboratory workshop development process for new plays. It provides a structured environment for rigorously revising student-written works. Prerequisites: TH 5375 or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5382. MFA Studio V.**

This course offers a study of and experience in preparing and directing Shakespeare: from inception of a given approach to handling the language issues to performance. This course examines how professional directors actually work on production for major Shakespeare theatres in America

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 5383. MFA Studio VI.**

This course continues the styles work started in MFA Studio V. It focuses on directing projects from multiple periods and styles of plays. Scenes will be drawn from several periods of dramatic literature including Ancient Greece, the English Restoration, Moliere, Georgian, and other High Comedy texts. Prerequisite: TH 5382

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5387. Directing Practicum.**

Study of and experience in choosing, preparing, and directing a theatre production from analysis to performance. Attention is given to theatre organization and management. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5397. Diagnostic Creative Project.**

This project involves the design of a relatively simple theatrical production that is produced by University Theatre. Complete production plans are prepared under faculty guidance, followed by faculty evaluation and debriefing after production. Requires Department Approval

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5398. Final Creative Project.**

To be taken the last year of training. This project requires the student to direct a major University Theatre production. The student must demonstrate mastery of directing. A complete written report of the project must be approved by a faculty committee. The report is a part of the final examination for the degree of Master of Arts with a major in Theatre for students in Directing

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Theatre 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5640. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry; it is intended for students who do a full-time internship over the summer or during a regular full semester. Consent of instructor required

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Theatre

### Course Work Requirements

Advisor Approved Graduate Elective in Theatre	3
Advisor Approved Graduate Elective in Theatre	3
Total Hours	6

## College of Health Professions

**Dean**

Ruth B. Welborn, Ph.D.

Health Professions Building Room 201

T: 512.245.3300 F: 512.245.3791

<http://www.health.txstate.edu/>

**Associate Dean**

Marla A. Erbin-Roesemann, Ph.D.

**Associate Dean For Research**

Rodney E. Rohde, Ph.D.

**Associate Dean**

Barbara L. Sanders, Ph.D.

**Department Chairs/Program Chairs/School Directors**

Clinical Laboratory Science—Rodney E. Rohde, Ph.D.

Communication Disorders—Valarie Fleming, Ph.D.



Health Administration—Matthew S. Brooks, Ph.D.  
 Health Information Management—Jackie A. Moczygemba, M.B.A.  
 Nursing—Marla A. Erbin-Roesemann, Ph.D.  
 Physical Therapy—Barbara L. Sanders, Ph.D.  
 Radiation Therapy—Ronnie G. Lozano, Ph.D.  
 Respiratory Care—S. Gregg Marshall, Ph.D.

The College of Health Professions prepares students for careers in the healthcare field. Through its professional, technical, clinical, and academic programs, the college serves as an advocate for change and technical improvement in the field. The college also serves as a catalyst to expand and improve public perceptions of healthcare.

Graduate programs are offered in communication disorders, healthcare administration, health services research, nursing, and physical therapy. The college has a number of cooperating teaching sites and more than 800 affiliations with hospitals and other healthcare facilities.

A number of programs offered in the College of Health Professions have specific admission requirements in addition to Texas State admission requirements. Most programs also have requirements for student liability insurance and immunizations. Background checks and drug testing may be required.

The Department of Respiratory Care and the programs of health information management and clinical laboratory science do not offer a graduate major, minor, or degree. Graduate courses are offered, however, in support of graduate programs.

## Immunization Requirements

It is the policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take specific immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and the required forms may be obtained through the program/department/school office.

## Background Check and Drug Screening

As a condition for placement in some professional practice sites, some students are required to have a background check and/or drug screening to meet requirements set by individual sites. Information on the drug screening process will be provided by program/department/school. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for practitioner license status following graduation.

## Department of Communication Disorders

Health Professions Building Room 150B  
 T: 512.245.2330 F: 512.245.2029  
<http://www.health.txstate.edu/CDIS>

## What is a Communication Disorder?

A communication disorder affects an individual's ability to hear, speak, understand, read, and/or write. The various types of communication disorders an individual can exhibit include: fluency, articulation, voice, swallowing, cognitive, and language disorders.

## Which Professionals Assess and Treat Individuals Exhibiting Communication Disorders?

Speech-language pathologists diagnose and treat communication disorders. Speech pathologists are employed in a variety of settings including: public schools, hospitals, rehabilitation centers, nursing care facilities, community clinics, colleges and universities, private practice, health departments, home care, adult day care centers, and research laboratories. Speech-language pathologists also assess and treat swallowing disorders, cognitive-communication disorders, and auditory processing disorders.

## Master of Arts (M.A.)

- Major in Communication Disorders (p. 923)

## Master of Science in Communication Disorders (M.S.C.D.)

- Major in Communication Disorders (p. 928)

## Master of Arts (M.A.), Major in Communication Disorders Major Program

The major in communication disorders is clinically oriented and is designed to prepare clinicians for employment in hospitals, clinics, private practice, and public schools. The program meets the minimum education and clinical requirements for state licensure as a speech-language pathologist and for the Certificate of Clinical Competence in Speech-Language Pathology awarded by the American Speech-Language-Hearing Association (ASHA). The academic program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the ASHA.

Candidates for the communication disorders master's degree are encouraged to earn a passing score on the Praxis Examination in Speech-Language Pathology before graduation and substitute a passing score for the required departmental graduate comprehensive examination.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/codis.html>.

## Facilities

The university operates the Speech-Language-Hearing Clinic on a twelve-month basis and is nationally known as a treatment center for communication disorders. Graduate students utilize the clinic for research in addition to clinical training experiences.

## Course Work Requirements

The M.A. requires a minimum of 39 academic hours:

### Communication Disorders Major Course Work

CDIS 5331	Stuttering Therapy	3
CDIS 5333	Language Disorders in School-Age and Adolescence	3



CDIS 5334	Articulation and Phonological Disorders: Assessment and Intervention	3
CDIS 5336	Neuromotor Disorders of Speech: Description and Rehabilitation	3
CDIS 5337	Vocal Rehabilitation	3
CDIS 5339	Dysphagia	3
CDIS 5342	Aphasia and Related Disorders	3
CDIS 5362	Introduction to Research in Communicative Disorders	3
CDIS 5363	Language Disorders in the Birth-to-5 Population	3

**Thesis Course Work**

Choose a minimum of 6 hours		6
CDIS 5199B	Thesis	
CDIS 5299B	Thesis	
CDIS 5399A	Thesis	
CDIS 5399B	Thesis	
CDIS 5599B	Thesis	
CDIS 5999B	Thesis	

**Communication Disorders Cognate**

Chosen from the list below	6
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**Clinical Practicum**

Must be taken each semester. Courses do not count for graduate degree credit.

CDIS 5321	Clinical Practicum in Audiology	
CDIS 5344	Advanced Clinical Practicum	
CDIS 5689	Internship in Communication Disorders	

Total Hours	39
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## Cognate Requirement

The communication disorders M.A. degree requires specific minors from within the Department of Communication Disorders. **Please consult with the communication disorders graduate advisor for more information about this program.** Students may choose from the following cognate options:

- Communication Disorders Bidialectal Cognate (6 hours)
- Communication Disorders Bilingual Cognate (6 hours)
- Communication Disorders Fluency Cognate (6 hours)
- Communication Disorders Neurogenic, Voice, & Swallowing Cognate (9 hours)
- Communication Disorders Versatility in Practice Cognate (9 hours)
- Open Cognate (6 hours)

## Cognate Course Work

Courses required for the 6-hour cognate options include:

CDIS 5340	Cognitive Rehabilitation in Traumatic Brain Injury	3
CDIS 5350	Multicultural Issues in Communication Disorders	3

Courses required for the 9-hour cognate options include:

CDIS 5340	Cognitive Rehabilitation in Traumatic Brain Injury	3
CDIS 5350	Multicultural Issues in Communication Disorders	3
CDIS 5390	Seminar in Communication Disorders	3

## Background Course Work

The number of hours of background work required is determined in consultation with the communication disorders undergraduate/leveling advisor and is dependent on the courses taken at the undergraduate level. Please refer to the Leveling Course Sequence located on the Department of Communication Disorders website at <http://www.health.txstate.edu/cdis/Admissions/Graduate-Admissions.html>. Upon completion of the required background work (leveling), applicants may apply for admission to the regular graduate sequence for a fall term. **Completion of the background requirements in the Department of Communication Disorders at Texas State DOES NOT GUARANTEE admission to the TWO-YEAR graduate program.**

## Practicum

In order to obtain the required clinical hours for certification, graduate students must enroll for clinical practicum each term enrolled for study toward the master's degree. Students participating in on-campus clinical practicum in speech-language pathology must enroll in CDIS 5344. Students earning supervised clock hours in audiology must enroll in CDIS 5321. Graduate students earning clinical hours in both speech-language pathology and audiology during the term must enroll for both CDIS 5344 and CDIS 5321 concurrently. Students participating in off-campus clinical practicum must enroll in CDIS 5689. Academic hours for clinical practicum do not count toward the degree.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Communication Disorders: CDIS (p. 925), HP (p. 928)

## Courses Offered

### Communication Disorders (CDIS)

#### CDIS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CDIS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CDIS 5301. Advanced Independent Study in Communication Disorders.

Discussions of various areas of speech language pathology. Attention to individual needs of the student. Emphasis on independent study in habilitation and rehabilitation of communication disorders. This course is repeatable for credit and can be taught by different faculty covering different topics. Prerequisite: Faculty permission required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CDIS 5312. Neuroanatomy for Communication Disorders.

This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language, and hearing are the main focus of this course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### CDIS 5321. Clinical Practicum in Audiology.

Supervised clinical practicum in audiology. Focus is on both diagnostic and rehabilitative audiological management of diverse populations. Must be taken every semester that a student participates in supervised audiology practicum. May be repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis. Prerequisites: CDIS 4420 and CDIS 4370 or equivalents; instructor approval

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

**CDIS 5325. Anatomy and Physiology of the Speech Production System.**

Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5330. Speech and Language Development.**

Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycholinguistics, psychology, and communication are examined for children in various stages of development. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5331. Stuttering Therapy.**

Description of therapeutic intervention with children and adults who stutter. Techniques of assessment, management, and counseling are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5333. Language Disorders in School-Age and Adolescence.**

This introductory-level course will review assessment and intervention for language disorders in the school-age and adolescent population. The relationship between language and literacy will be discussed. Students will engage in detailed narrative analyses. Evidence-based practice and collaborative models of intervention will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5334. Articulation and Phonological Disorders: Assessment and Intervention.**

Study of normal, delayed, and disordered child phonology in English and select dialects/languages. Course covers etiologies, characteristics, and anatomic/physiologic bases of delays/disorders, as well as their potential impact on phonological awareness and subsequent development in reading/writing. Prevention, assessment, and treatment of disorders will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5335. Bilingual Phonology and Phonological Disorders.**

Typical development of Spanish-English bilingual/bidialectal children's articulation and phonology will be discussed. Assessment and intervention of articulation and phonology with bilingual/bidialectal children will also be addressed. The information and theoretical foundations serve as a guide for students to critically evaluate and clinically apply research in bilingual populations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5336. Neuromotor Disorders of Speech: Description and Rehabilitation.**

The course reviews the neuroanatomic mechanisms underlying speech production and surveys the etiology, symptomatology, epidemiology, course, and prognosis of speech disorders resulting from impairment of the central and/or peripheral nervous system. Emphasis is placed on apraxia and the dysarthrias. Clinical application in assessment and rehabilitation of patients with neurogenically-based motor speech deficits is stressed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5337. Vocal Rehabilitation.**

Assessment of vocal function and disorders; rehabilitation of the patient with vocal abnormalities due to vocal abuse, psychological, and/or organic etiologies, including laryngectomy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5339. Dysphagia.**

A review of anatomic and physiologic disturbances of swallowing in neurologically impaired and post-surgical head and neck cancer patients will be presented. Instrumentation, techniques of evaluation, and radiograph examination of deglutition will be reviewed. Rehabilitation procedures will be described in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5340. Cognitive Rehabilitation in Traumatic Brain Injury.**

This introductory-level course will review neuropathology and neurophysiology of traumatic brain injury and dementia, introduce relevant terms and models in cognitive rehabilitation, provide a framework for assessment and treatment, and discuss the functional impact of cognitive-communicative disorders on the patient and others. Prerequisites: CDIS 5336, CDIS 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5342. Aphasia and Related Disorders.**

The course develops an understanding of the etiology, symptomatology, assessment, remediation, and recovery patterns of acquired communication disorders that result from impairment of the central nervous system, with a focus on the aphasias and traumatic brain injuries. Coexisting problems caused by damage to cortical/sub-cortical structures will also be addressed. Recent advances in relevant clinical research and technology will be surveyed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5344. Advanced Clinical Practicum.**

Clinical practicum for graduate students focusing on assessment and remediation of communication disorders in children and adults. Required each semester enrolled. Repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

**CDIS 5350. Multicultural Issues in Communication Disorders.**

Addresses the social, cultural, and linguistic factors that impact the clinical service delivery provided to culturally and linguistically diverse populations. A primary focus of the course will be to address general principles of assessment and intervention as they relate to the clinical management of individuals with communication disorders from diverse cultural and language backgrounds. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CDIS 5362. Introduction to Research in Communicative Disorders.**

Designed to acquaint the student with research protocol in behavior science, with an emphasis in speech-language pathology. Topics include research design, data analysis, manuscript preparation, and obtaining external funding. Emphasis on critical analysis of professional literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5363. Language Disorders in the Birth-to-5 Population.**

This introductory-level course will review assessment and intervention for language disorders in the birth-to-5 population. Use of assessment information to determine language disorders versus language difference will be addressed. Students will engage in detailed language sample analyses. Creating effective intervention plans using assessment data will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5370. Aural Rehabilitation.**

Principles and procedures in the habilitation and rehabilitation of hearing-impaired children and adults. This course does not earn graduate degree credit. Prerequisite: CDIS 5420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5380. Communication and Aging.**

The influx of senior citizens in our population will require preparation for the increased incidence of communication problems due to normal and pathological aging processes. This course will address how aging affects communication, how communication disorders manifest in the aging population, and implications for professionals working with older adults. This course is restricted to non-CDIS major graduate students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5390. Seminar in Communication Disorders.**

Examination of current theoretical and clinical issues in Communication Disorders. Issues may include family management in communication disorders, language and literacy, issues in health care rehabilitation, instrumentation and entrepreneurship. May be repeated for credit. Prerequisite: Graduate standing and permission of instructor and graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Communication Disorders 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5420. Introduction to Audiology.**

Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal, pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of Audiology and provision of audiological service to special populations. This course does not earn graduate degree credit. Prerequisite: CDIS 5469

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5459. Phonemics and Phonetics.**

Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5462. MP Remediation of Articulatory and Phonological Disorders.**

This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5466. Clinical Management of Language Disorders.**

Study of principles and procedures for the identification, description, assessment, and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples are emphasized. This course does not earn graduate degree credit. Prerequisite: CDIS 5330

**4 Credit Hours. 4 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships



**CDIS 5469. Introduction to Hearing Science.**

Study of acoustics, auditory physiology, and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing, and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem-solving, and weekly assignments. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5475. Speech Science.**

Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5689. Internship in Communication Disorders.**

Laboratory and clinical practicum at selected therapeutic sites used to provide additional breadth to therapeutic experiences. Dependent on approval of faculty advisor. Repeated for credit. Graded on a credit (CR), no-credit (F) basis. This course does not earn graduate degree credit

**6 Credit Hours. 1 Lecture Contact Hour. 30 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CDIS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Health Professions (HP)****HP 5300. Teaching in the Health Professions.**

This course is an introduction to curriculum, instruction, and assessment methods in teaching and covers topics related to instruction in lecture, laboratories, and clinical settings. This course is required for first year teaching assistants and graduate instructional assistants. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

# Master of Science in Communication Disorders (M.S.C.D.), Major in Communication Disorders

## Major Program

The major in communication disorders is clinically oriented and is designed to prepare clinicians for employment in hospitals, clinics, private practice, and public schools. The program meets the minimum education and clinical requirements for state licensure as a speech-language pathologist and for the Certificate of Clinical Competence in Speech-Language Pathology awarded by the American Speech-Language-Hearing Association (ASHA). The academic program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the ASHA.

Candidates for the communication disorders master's degree are encouraged to earn a passing score on the Praxis Examination in Speech-Language Pathology before graduation and substitute a passing score for the required departmental graduate comprehensive examination.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/codis.html>.

## Facilities

The university operates the Speech-Language-Hearing Clinic on a twelve-month basis and is nationally known as a treatment center for communication disorders. Graduate students utilize the clinic for research in addition to clinical training experiences.

## Course Work Requirements

The time to degree may vary, depending on the undergraduate background of a student, but the M.S.C.D. requires a minimum of 36 academic hours:

### Communication Disorders Major Course Work

CDIS 5331	Stuttering Therapy	3
CDIS 5333	Language Disorders in School-Age and Adolescence	3
CDIS 5334	Articulation and Phonological Disorders: Assessment and Intervention	3
CDIS 5336	Neuromotor Disorders of Speech: Description and Rehabilitation	3
CDIS 5337	Vocal Rehabilitation	3
CDIS 5339	Dysphagia	3
CDIS 5342	Aphasia and Related Disorders	3
CDIS 5362	Introduction to Research in Communicative Disorders	3
CDIS 5363	Language Disorders in the Birth-to-5 Population	3

### Communication Disorders Cognate

Choose from the list below 9

### Clinical Practicum

Must be taken each semester. Courses do not count for graduate degree credit.

CDIS 5321	Clinical Practicum in Audiology
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CDIS 5344	Advanced Clinical Practicum	
CDIS 5689	Internship in Communication Disorders	
Total Hours		36

## Cognate Requirement

The communication disorders M.A. degree requires specific minors from within the Department of Communication Disorders. Please consult with the communication disorders graduate advisor for more information about this program. Students may choose from the following cognate options:

- Communication Disorders Autism Cognate
- Communication Disorders Bidialectal Cognate
- Communication Disorders Bilingual Cognate
- Communication Disorders Fluency Cognate
- Communication Disorders Neurogenic, Voice, & Swallowing Cognate
- Communication Disorders Versatility in Practice Cognate

### Cognate Course Work

Courses required for the 9-hour cognate options include:

CDIS 5340	Cognitive Rehabilitation in Traumatic Brain Injury	3
CDIS 5350	Multicultural Issues in Communication Disorders	3
CDIS 5390	Seminar in Communication Disorders	3
or CDIS 5301	Advanced Independent Study in Communication Disorders	

## Background Course Work

The number of hours of background work required is determined in consultation with the communication disorders undergraduate/leveling advisor and is dependent on the courses taken at the undergraduate level. Please refer to the Leveling Course Sequence located on the Department of Communication Disorders website at <http://www.health.txstate.edu/cdis/Admissions/Graduate-Admissions.html>. Upon completion of the required background work (leveling), applicants may apply for admission to the regular graduate sequence for a fall term using this same packet with the Feb 1<sup>st</sup> deadline. **Completion of the background requirements in the Department of Communication Disorders at Texas State DOES NOT GUARANTEE admission to the TWO-YEAR graduate program.**

## Practicum

In order to obtain the required clinical hours for certification, graduate students must enroll for clinical practicum each term enrolled for study toward the master's degree. Students participating in on-campus clinical practicum in speech-language pathology must enroll in CDIS 5344. Students earning supervised clock hours in audiology must enroll in CDIS 5321. Graduate students earning clinical hours in both speech-language pathology and audiology during the term must enroll for both CDIS 5344 and CDIS 5321 concurrently. Students participating in off-campus clinical practicum must enroll in CDIS 5689. Academic hours for clinical practicum do not count toward the degree.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis*

or *Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Communication Disorders: CDIS (p. 930), HP (p. 933)

## Courses Offered

### Communication Disorders (CDIS)

#### CDIS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CDIS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CDIS 5301. Advanced Independent Study in Communication Disorders.

Discussions of various areas of speech language pathology. Attention to individual needs of the student. Emphasis on independent study in habilitation and rehabilitation of communication disorders. This course is repeatable for credit and can be taught by different faculty covering different topics. Prerequisite: Faculty permission required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CDIS 5312. Neuroanatomy for Communication Disorders.

This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language, and hearing are the main focus of this course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### CDIS 5321. Clinical Practicum in Audiology.

Supervised clinical practicum in audiology. Focus is on both diagnostic and rehabilitative audiological management of diverse populations. Must be taken every semester that a student participates in supervised audiology practicum. May be repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis. Prerequisites: CDIS 4420 and CDIS 4370 or equivalents; instructor approval

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

#### CDIS 5325. Anatomy and Physiology of the Speech Production System.

Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### CDIS 5330. Speech and Language Development.

Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycholinguistics, psychology, and communication are examined for children in various stages of development. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### CDIS 5331. Stuttering Therapy.

Description of therapeutic intervention with children and adults who stutter. Techniques of assessment, management, and counseling are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CDIS 5333. Language Disorders in School-Age and Adolescence.

This introductory-level course will review assessment and intervention for language disorders in the school-age and adolescent population. The relationship between language and literacy will be discussed. Students will engage in detailed narrative analyses. Evidence-based practice and collaborative models of intervention will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5334. Articulation and Phonological Disorders: Assessment and Intervention.**

Study of normal, delayed, and disordered child phonology in English and select dialects/languages. Course covers etiologies, characteristics, and anatomic/physiologic bases of delays/disorders, as well as their potential impact on phonological awareness and subsequent development in reading/writing. Prevention, assessment, and treatment of disorders will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5335. Bilingual Phonology and Phonological Disorders.**

Typical development of Spanish-English bilingual/bidialectal children's articulation and phonology will be discussed. Assessment and intervention of articulation and phonology with bilingual/bidialectal children will also be addressed. The information and theoretical foundations serve as a guide for students to critically evaluate and clinically apply research in bilingual populations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5336. Neuromotor Disorders of Speech: Description and Rehabilitation.**

The course reviews the neuroanatomic mechanisms underlying speech production and surveys the etiology, symptomatology, epidemiology, course, and prognosis of speech disorders resulting from impairment of the central and/or peripheral nervous system. Emphasis is placed on apraxia and the dysarthrias. Clinical application in assessment and rehabilitation of patients with neurogenically-based motor speech deficits is stressed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5337. Vocal Rehabilitation.**

Assessment of vocal function and disorders; rehabilitation of the patient with vocal abnormalities due to vocal abuse, psychological, and/or organic etiologies, including laryngectomy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5339. Dysphagia.**

A review of anatomic and physiologic disturbances of swallowing in neurologically impaired and post-surgical head and neck cancer patients will be presented. Instrumentation, techniques of evaluation, and radiograph examination of deglutition will be reviewed. Rehabilitation procedures will be described in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5340. Cognitive Rehabilitation in Traumatic Brain Injury.**

This introductory-level course will review neuropathology and neurophysiology of traumatic brain injury and dementia, introduce relevant terms and models in cognitive rehabilitation, provide a framework for assessment and treatment, and discuss the functional impact of cognitive-communicative disorders on the patient and others. Prerequisites: CDIS 5336, CDIS 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5342. Aphasia and Related Disorders.**

The course develops an understanding of the etiology, symptomatology, assessment, remediation, and recovery patterns of acquired communication disorders that result from impairment of the central nervous system, with a focus on the aphasias and traumatic brain injuries. Coexisting problems caused by damage to cortical/sub-cortical structures will also be addressed. Recent advances in relevant clinical research and technology will be surveyed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5344. Advanced Clinical Practicum.**

Clinical practicum for graduate students focusing on assessment and remediation of communication disorders in children and adults. Required each semester enrolled. Repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

**CDIS 5350. Multicultural Issues in Communication Disorders.**

Addresses the social, cultural, and linguistic factors that impact the clinical service delivery provided to culturally and linguistically diverse populations. A primary focus of the course will be to address general principles of assessment and intervention as they relate to the clinical management of individuals with communication disorders from diverse cultural and language backgrounds. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CDIS 5362. Introduction to Research in Communicative Disorders.**

Designed to acquaint the student with research protocol in behavior science, with an emphasis in speech-language pathology. Topics include research design, data analysis, manuscript preparation, and obtaining external funding. Emphasis on critical analysis of professional literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5363. Language Disorders in the Birth-to-5 Population.**

This introductory-level course will review assessment and intervention for language disorders in the birth-to-5 population. Use of assessment information to determine language disorders versus language difference will be addressed. Students will engage in detailed language sample analyses. Creating effective intervention plans using assessment data will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5370. Aural Rehabilitation.**

Principles and procedures in the habilitation and rehabilitation of hearing-impaired children and adults. This course does not earn graduate degree credit. Prerequisite: CDIS 5420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5380. Communication and Aging.**

The influx of senior citizens in our population will require preparation for the increased incidence of communication problems due to normal and pathological aging processes. This course will address how aging affects communication, how communication disorders manifest in the aging population, and implications for professionals working with older adults. This course is restricted to non-CDIS major graduate students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CDIS 5390. Seminar in Communication Disorders.**

Examination of current theoretical and clinical issues in Communication Disorders. Issues may include family management in communication disorders, language and literacy, issues in health care rehabilitation, instrumentation and entrepreneurship. May be repeated for credit.

Prerequisite: Graduate standing and permission of instructor and graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CDIS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Communication Disorders 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CDIS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CDIS 5420. Introduction to Audiology.**

Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal, pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of Audiology and provision of audiological service to special populations. This course does not earn graduate degree credit. Prerequisite: CDIS 5469

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5459. Phonemics and Phonetics.**

Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5462. MP Remediation of Articulatory and Phonological Disorders.**

This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5466. Clinical Management of Language Disorders.**

Study of principles and procedures for the identification, description, assessment, and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples are emphasized. This course does not earn graduate degree credit. Prerequisite: CDIS 5330

**4 Credit Hours. 4 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5469. Introduction to Hearing Science.**

Study of acoustics, auditory physiology, and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing, and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem-solving, and weekly assignments. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5475. Speech Science.**

Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling  
**Grade Mode:** Leveling/Assistantships

**CDIS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CDIS 5689. Internship in Communication Disorders.**

Laboratory and clinical practicum at selected therapeutic sites used to provide additional breadth to therapeutic experiences. Dependent on approval of faculty advisor. Repeated for credit. Graded on a credit (CR), no-credit (F) basis. This course does not earn graduate degree credit

**6 Credit Hours. 1 Lecture Contact Hour. 30 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships



**CDIS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Health Professions (HP)****HP 5300. Teaching in the Health Professions.**

This course is an introduction to curriculum, instruction, and assessment methods in teaching and covers topics related to instruction in lecture, laboratories, and clinical settings. This course is required for first year teaching assistants and graduate instructional assistants. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**School of Health Administration**

Health Professions Building Room 250

T: 512.245.3494 F: 512.245.8712

<http://www.health.txstate.edu/HA>

Welcome to the School of Health Administration, which has steadily over the last 20 years assembled one of the best Health Administration (HA) faculties in the nation. The HA faculty have both educational preparation and the real-world experience necessary to maintain credibility with both students and employers of our students. The school boasts four faculty with the rank of professor teaching in HA, and eight faculty certified by the American College of Healthcare Executives at the highest level of Fellow. In addition, we have two faculty members certified at the highest level of Fellow in the Healthcare Financial Management Association. Four of the faculty have significant international experience: Dr. Matthew Brooks, Dr. Oren Renick, Dr. Michael Nowicki, and Dr. Scott Kruse.

**Immunization Requirements**

It is the policy of the College of Health Professions that each student must provide a health report completed by a health care provider and must take specific immunizations before the student can be placed in field placement. Information on these requirements and the required forms may be obtained through the program/department/school office.

**Background Check and Drug Screening**

As a condition for placement in all professional practice sites, students are required to have a background check and/or drug screening to meet requirements set by individual sites. Information on the drug screening process will be provided by program/department/school. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code will affect eligibility for placement in field experience.

**Master of Healthcare Administration (M.H.A.)**

- Major in Healthcare Administration (p. 937)

**Minors**

- Healthcare Administration (p. 937)

**Certificates**

- Healthcare Administration (p. 937)
- Long Term Care Administration (p. 937)

**Master of Healthcare Administration (M.H.A.), Major in Healthcare Administration****Major Program**

The major in healthcare administration offers courses designed to enhance the career mobility of persons currently employed in health professions as well as to provide a solid base of academic and directed experiences for persons who may desire entry into the field of health administration. The primary focus of the curriculum is middle-to senior-level management.

Principal areas of study include health and disease; sociological, economic, legal, and political forces which affect health care; and management organizational behaviors including such specializations as financial management, human resource management, planning, marketing, and data generation and analysis.

**Admission Policy**

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/ha.html>.

**Course Work Requirements**

The 49-hour M.H.A. degree with a major in healthcare administration usually includes 43 hours of core courses and either a field experience of 6 hours or six hours of thesis, depending on the student's previous health administration experience.

**Thesis Option****Required Course Work**

HA 5300	Healthcare Organization and Delivery	3
HA 5301	Healthcare Administration Research Methods	3
HA 5303	Information Systems Management in Healthcare	3
HA 5304	Healthcare Economics and Financial Theory	3
HA 5316	Healthcare Financial Management	3
HA 5321	Healthcare Law	3
HA 5325	Patient Care Management and Integrated Delivery Systems	3
HA 5334	Operational Decision Making for Healthcare Managers	3
HA 5335	Public Health for Healthcare Administrators	3
HA 5346	Healthcare Strategic Management	3
HA 5355	Human Resource Management in Healthcare Facilities	3
HA 5356	Policy Development in Healthcare Arena	3
HA 5362	Healthcare Organizational Behavior/Theory	3
HA 5371	Marketing of Health Services	3
HA 5191	Field Experience Orientation	1

**Thesis Course Work**

Choose a minimum of 6 hours	6
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HA 5199B	Thesis	
HA 5299B	Thesis	
HA 5399A	Thesis	
HA 5399B	Thesis	
HA 5599B	Thesis	
HA 5999B	Thesis	
Total Hours		49

## Non-thesis Option

### Required Course Work

HA 5300	Healthcare Organization and Delivery	3
HA 5301	Healthcare Administration Research Methods	3
HA 5303	Information Systems Management in Healthcare	3
HA 5304	Healthcare Economics and Financial Theory	3
HA 5316	Healthcare Financial Management	3
HA 5321	Healthcare Law	3
HA 5325	Patient Care Management and Integrated Delivery Systems	3
HA 5334	Operational Decision Making for Healthcare Managers	3
HA 5335	Public Health for Healthcare Administrators	3
HA 5346	Healthcare Strategic Management	3
HA 5355	Human Resource Management in Healthcare Facilities	3
HA 5356	Policy Development in Healthcare Arena	3
HA 5362	Healthcare Organizational Behavior/Theory	3
HA 5371	Marketing of Health Services	3
HA 5191	Field Experience Orientation	1

### Internship or Practicum

Choose a minimum of 6 hours		6
HA 5640	Administrative Practicum	
HA 5840	Administrative Internship	
HA 5841	Administrative Residency	

Total Hours 49

## Prerequisites

Course prerequisites for healthcare administration majors include the following: statistics, economics, and financial accounting. These prerequisites may be accepted from other universities and should be taken prior to entering the graduate program.

## Comprehensive Exam

All degree-seeking graduate students must pass a comprehensive exam at the end of the didactic portion of their programs. The School of Health Administration administers comprehensive exams at the end of the fall and spring terms. Students with field placements on their degree audits must pass the comprehensive exam before they begin their field placement. Students who fail the comprehensive exam may take the exam again the next term it is offered.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis*

or *Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

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## Fee Reduction

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## Thesis Deadlines and Approval Process

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The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Health Administration: HA

## Courses Offered

### Health Administration (HA)

#### HA 5111. Topics in Health Administration.

An in-depth study of a singular topic or a related problem being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's current relevance and its utilitarian value to the participant. May be repeated if topic differs

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### HA 5191. Field Experience Orientation.

This course will assist the student to prepare for the field experience and to prepare for the comprehensive exam. An extensive orientation to the field experience will be provided to better enable students to move from the classroom setting to a workplace scenario

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### HA 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### HA 5211. Topics in Health Administration.

An in-depth study of a narrow range of topics or related problems being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's relevance and its utilitarian value to the participant. Maybe repeated if topic differs

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### HA 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### HA 5300. Healthcare Organization and Delivery.

A survey of the organization and delivery of health services focusing on the history and development of health systems as they relate to the overall health and medical care systems. Major attention is given to governing bodies, patient care organizations, and executive management structures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### HA 5301. Healthcare Administration Research Methods.

A study of research methodology as it pertains to healthcare administration. Included are hypothesis forming, designing research, and the collection, manipulation and analysis of data. Knowledge of numeracy and statistics is essential

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### HA 5303. Information Systems Management in Healthcare.

This course provides a comprehensive introduction to information systems management for healthcare organizations. It covers the determination of information required by whom, design of information flows, procurement of information systems technology resources, assurance of information security, and management of systems integration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### HA 5304. Healthcare Economics and Financial Theory.

A study of economic theories that have an impact on the healthcare industry. Special emphasis will be placed on emerging economic research and its impact on potential policy ramifications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**HA 5311. Trends in Health Administration.**

An in-depth study of singular trend or a related problem being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's current relevance and its utilitarian value to the participant. Examples of trends, which are typically offered, include trends in rural health, managed care ethical issues, and in total quality management. This course may be repeated for credit with a different subject area

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5316. Healthcare Financial Management.**

An introduction to healthcare financial management including the financial management in healthcare organizations, healthcare payment systems, financing and investment decisions, and financial planning, analysis, and control. Prerequisites: accounting, economics, and statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5321. Healthcare Law.**

An in-depth analysis of healthcare law and its effect on the relationships between the patient, the patient's family, the provider, and other interested third parties. Analysis of cases is the primary method of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5325. Patient Care Management and Integrated Delivery Systems.**

A study of alternative delivery systems, managed care organizations, consumer-driven healthcare and the quality movement in health care. Quality management will be explored with special attention given to the quality management process, the role of outcomes, the characteristics, uses, and sources of quality standards, and risk management and information management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5334. Operational Decision Making for Healthcare Managers.**

An introduction to the fundamentals of selected operations research techniques essential to the analysis of healthcare managerial problem situations, the design of new and improved systems, and the implementation of systems to achieve desired systems performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5335. Public Health for Healthcare Administrators.**

This course introduces the healthcare manager to public health and its role in preventing illnesses and improving the health of the community. Students will learn of the role of the manager in disease prevention and how to participate and lead community efforts for the wellness of the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5346. Healthcare Strategic Management.**

This capstone course examines mission, vision, strategy, and operations from both the formulation and implementation perspectives. Emphasis will be on the role of the manager/leader in strategic management analysis, creativity, and action. This course is available to HA majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5355. Human Resource Management in Healthcare Facilities.**

A study of personnel administration in the healthcare facility and the environment in which it functions. Emphasis will be on the role of the Personnel Office in forecasting, developing, and managing human resources, in addition to a review of current legislation affecting the personnel function

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5356. Policy Development in Healthcare Arena.**

Prospective healthcare administrators analyze changing healthcare paradigm to determine decision-points where policies can be affected. Course allows students to apply existing skills to real world policy issues at state and national levels and to analyze policy development from numerous stakeholders' viewpoints

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5362. Healthcare Organizational Behavior/Theory.**

This course is a study of theory and concepts drawn from the behavioral and social sciences. These concepts are applied as a foundation and conceptual framework for the analysis, diagnosis, prediction and guidance of human behavior in healthcare organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5371. Marketing of Health Services.**

A study of marketing functions and principles as they relate to the healthcare delivery system. Analysis of marketing concepts such as market segmentation, marketing planning, marketing audit, marketing positioning, and marketing mix will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5375. Healthcare Accounting.**

An introduction to financial accounting in healthcare with an emphasis on the preparation of non-profit financial statements for healthcare service organizations, control procedures for healthcare entities, and accounting issues unique to the healthcare industry. This course does not count for graduate degree credit. Graded on a credit (CR), no credit (PR) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**HA 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis, HA 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5640. Administrative Practicum.**

A one-semester, part-time field experience designed for the student already working full-time in healthcare. The practicum provides a broader orientation to the student's organization and exposure to special projects. This course is graded on a credit (CR), no-credit (F) basis

**6 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5840. Administrative Internship.**

A one-semester, full-time field experience designed for the student with no prior healthcare work experience. The internship provides a full orientation to the organization and exposure to special projects. This course is graded on a credit (CR), no-credit (F) basis

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5841. Administrative Residency.**

A full-time field experience, which provides an extensive rotation and special projects. Designed for the student with no prior work experience in healthcare. Student must be enrolled in the course for the duration of the field experience. Repeatable for credit

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Healthcare Administration

### Minor or Cognate

The School of Health Administration offers a 15-hour minor in healthcare administration. Students are required to take:

HA 5300	Healthcare Organization and Delivery	3
HA 5321	Healthcare Law	3
HA 5362	Healthcare Organizational Behavior/Theory	3
Advisor Approved Graduate Electives		6
Total Hours		15

For those majors not requiring a 15-hour minor, a 9-hour cognate is available. Courses to be taken for the 9-hour cognate are:

HA 5300	Healthcare Organization and Delivery	3
HA 5321	Healthcare Law	3
HA 5362	Healthcare Organizational Behavior/Theory	3
Total Hours		9

## Certificate in Healthcare Administration

The graduate certificate in healthcare administration is designed to offer the core M.H.A. degree content to healthcare managers and other healthcare professionals. The graduate certificate in HA is taught in a learning environment where students with management and professional experience can supplement their existing practical knowledge with new theoretical knowledge of healthcare organizations, healthcare organizational behavior, healthcare law, and related healthcare administration topics.

Applicants applying for the graduate certificate in health administration must have at least two (2) years of experience as a healthcare manager and/or healthcare professional and must provide a current resume during the application process.

### Course Work Requirements

HA 5300	Healthcare Organization and Delivery	3
HA 5321	Healthcare Law	3
HA 5362	Healthcare Organizational Behavior/Theory	3
Graduate Health Administration Electives		6
Total Hours		15

### Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Certificate in Long Term Care Administration

The graduate certificate in long term care administration is designed to offer the course work necessary to sit for the Texas licensing exam for nursing facility administrators. The School of Health Administrators also offers an optional field placement. Note: all questions regarding licensure and state exam requirements should be directed to the Texas Department of Aging and Disability Services (DADS) at 512.438.2015.

### Course Work Requirements

LTCA 5322	Environmental Management in Long Term Care	3
LTCA 5323	Governance Management in Long Term Care	3
LTCA 5324	Personnel Management in Long Term Care	3
LTCA 5325	Resident Care Management in Long Term Care	3
LTCA 5335	Financial Management in Long Term Care	3
Total Hours		15

In addition to the completion of certificate course work, a minimum of 1,000 internship hours are required to become a Texas licensed nursing facility administrator. Enrollment in LTCA 5681 may be required.

### Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).



[www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html)

## Department of Health Information Management

Health Professions Building Room 302  
T: 512.245.8242 F: 512.245.8258  
<http://www.health.txstate.edu/HIM>

The mission of the Department of Health Information Management (HIM) at Texas State is to develop the skills and qualities needed to fulfill the multifaceted role of a health information management practitioner and to develop the attitudes and principles which will encourage continuing growth in the profession that is rapidly expanding in scope and responsibility in the dynamic environment of the health care industry.

Health information management improves the quality of health care by insuring that the best information is available to make any healthcare decision. HIM professionals manage healthcare data and information resources. The profession encompasses services in planning, collecting, aggregating, analyzing, and disseminating individual patient and aggregate clinical data. It serves the healthcare industry including: patient care organizations, payers, research and policy agencies, and other healthcare related industries.

Projected by the Bureau of Labor Statistics to be one of the 15 fastest growing occupations in the United States, HIM is an excellent career choice for the person who is seeking a healthcare profession that combines interest in computer sciences, business, management, legal procedures, and healthcare research. HIM professionals play a key role in making the healthcare system work. They perform the data collection and analysis that doctors, nurses, and other healthcare professionals need to provide quality patient care.

More than half of new HIM graduates start with salaries in the \$30,000 to \$50,000 ranges. In five years, many of these graduates are earning up to \$75,000. These professionals work in a broad range of settings that span the continuum of healthcare, including office-based physician practices, nursing homes, home health agencies, mental health facilities, and public health agencies. The growth of managed care has created additional job opportunities in HMOs, PPOs, and insurance companies.

## Immunization Requirements

It is the policy of the College of Health Professions that each student must provide a health report completed by a physician and must take specific immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and the required forms may be obtained through the program/department/school office.

## Background Check and Drug Screening

As a condition for placement in some professional practice sites, some students are required to have a background check and/or drug screening to meet requirements set by individual sites. Information on the drug screening process will be provided by program/department/school. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for practitioner license status following graduation.

## Master of Health Information Management (M.H.I.M.)

- Major in Health Information Management (p. 938)

## Masters in Health Information Management (M.H.I.M.), Major in Health Information Management

### Major Program

The major in health information management (M.H.I.M.) will offer current and emerging content about the evolving health information management field with the expanding reliance on patient data. The educational objectives of the program are:

- to prepare students for the emerging roles and functions within the health information management domain,
- to provide graduate level education that will prepare students to develop problem solving skills with the ability to analyze and evaluate systems, technology, regulations, data needs to assist in creating new methods, and in policy development,
- to provide a broad-based program of coursework that supports the varied aspects of HIM practice focusing on health data management, data analytics, health information technology project management, and compliance with regulations including privacy of patient information,
- to establish a framework for professional behavior and ethical principles to be used to guide decision-making and actions in the expanding role of health information management professionals, and
- to conduct research that will illustrate and define the health information body of knowledge.

The curriculum will help prepare leaders in the areas of information technology, data stewardship, Health Information Exchange information governance, clinical documentation integrity, project management, and quality data analytics.

### Online Information

This program is taught exclusively online. For students residing outside of Texas and not planning on relocating to the state, please visit <http://www.distancelearning.txstate.edu/> before applying.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at (<http://www.gradcollege.txstate.edu/him.html>)<http://www.gradcollege.txstate.edu/him.html>.

## Degree Requirements

The M.H.I.M. degree is a 36-hour program with thesis and non-thesis options. It requires a 30 hour core of Health Information Management (HIM) courses, plus 6 hours of electives or thesis. The electives in Computer Information Systems (CIS), Health Administration (HA), and HIM Informatics allow the students to select a curriculum aligned with their career goals.



## Thesis Option

### Core Course Work

HIM 5311	Informatics, Analytics and Data Use	3
HIM 5320	Research Methods for HIM	3
HIM 5342	Information Systems and Technology	3
HIM 5351	Data Security, Privacy, and Confidentiality	3
HIM 5363	Health Data Content Structure and Standards	3
HIM 5370	Healthcare Finance and Revenue Cycle Management	3
HIM 5380	Quality Improvement in Health Care	3
HIM 5382	Compliance for HIM Topics	3
HIM 5390	Contemporary Leadership Principles for HIM.	3
HIM 5397	HIM Directed Practicum	3

### Thesis Course Work

Choose a minimum 6 hours		6
HIM 5399A	Thesis	
HIM 5399B	Thesis	
Total Hours		36

## Non-thesis Option

### Core Course Work

HIM 5311	Informatics, Analytics and Data Use	3
HIM 5320	Research Methods for HIM	3
HIM 5342	Information Systems and Technology	3
HIM 5351	Data Security, Privacy, and Confidentiality	3
HIM 5363	Health Data Content Structure and Standards	3
HIM 5370	Healthcare Finance and Revenue Cycle Management	3
HIM 5380	Quality Improvement in Health Care	3
HIM 5382	Compliance for HIM Topics	3
HIM 5390	Contemporary Leadership Principles for HIM.	3
HIM 5397	HIM Directed Practicum	3

### Prescribed Electives

Choose 6 hours from the following:		6
HIM 5340	Healthcare Informatics	
HIM 5341	Healthcare Terminologies and Vocabularies	
HIM 5301	The Enterprise Electronic Health Record	
HA 5300	Healthcare Organization and Delivery	
HA 5334	Operational Decision Making for Healthcare Managers	
HA 5335	Public Health for Healthcare Administrators	
HA 5355	Human Resource Management in Healthcare Facilities	
HA 5356	Policy Development in Healthcare Arena	
CIS 5355	Database Management Systems	
CIS 5358	IT Systems Project Management	
CIS 5364	Data Warehousing and Mining	
CIS 5368	Information Security	
CIS 5370	Enterprise Resource Planning	
Total Hours		36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The

thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

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The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

### Courses Offered

## Health Information Management (HIM)

### HIM 5301. The Enterprise Electronic Health Record.

This course provides an in-depth analysis of the concept of an organization-wide electronic health record system. A major focus will be on the analysis of how this technology impacts overall hospital operations from both a clinical and administrative perspective. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5311. Informatics, Analytics and Data Use.

This course provides an introduction to the fundamental concepts of data analytics and decision support. A major focus will be quality-driven data-based decision making systems for business intelligence, consumer informatics and health information exchanges. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5320. Research Methods for HIM.

This course provides an introduction to research study design, methods, descriptive and inferential statistics need to conduct research studies in the Health Information Management domains. The foundation for compiling, analyzing, and displaying healthcare statistics needed to report and monitor healthcare statistics in the workplace will also be covered. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5340. Healthcare Informatics.

This course provides an overview and introduction to healthcare informatics. Topics in the course will include the information infrastructure, data needs, implementing healthcare information systems, decision making, privacy and security, consumer informatics and emerging technologies. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5341. Healthcare Terminologies and Vocabularies.

This course will provide an overview of healthcare terminologies, code sets and classification schemes, and associated standards. Mapping and the relationship of SNOMED to an administrative classification system such as ICD-9-CM will be explored. The purpose and differences encountered in mapping a terminology to a classification will be examined. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5342. Information Systems and Technology.

This course provides an introduction to the fundamental concepts of health information technologies and information management strategic planning. A major focus will be design and selection of data-driven systems that offer strategic advantages, facilitate compliance and provide a return on investment. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5351. Data Security, Privacy, and Confidentiality.

This course provides a detailed assessment of how state laws and federal regulations influence the development and management of policies and technology to protect data security, privacy, and confidentiality of protected health information. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### HIM 5363. Health Data Content Structure and Standards.

This course provides an in-depth study of the components and use of health records. Interoperability and healthcare informatics standards for collecting, maintaining and transferring healthcare data will be examined. The role of the HIM professional in developing an effective information governance program will be analyzed. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5370. Healthcare Finance and Revenue Cycle Management.**

This course will focus on healthcare financial and revenue cycle/reimbursement management issues that impact the practice of Health Information Management. Specific topics covered include financial management, coding compliance, case mix index, revenue cycle, and reimbursement methods. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5380. Quality Improvement in Health Care.**

This course provides an in-depth study on quality improvement methodology to include data retrieval, display, outcomes analysis and the aspect of risk management for various sectors of healthcare. Mechanisms for promoting facility-wide participation in achieving optimum patient care as delineated in accreditation and government standards will be analyzed. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5382. Compliance for HIM Topics.**

Compliance activities and methods will be covered for HIM topics to include HIPAA, fraud and abuse, coding auditing, severity of illness, data analytics, fraud surveillance, and clinical documentation improvement. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5390. Contemporary Leadership Principles for HIM..**

This course explores the expanded role of the Health Information Management professional in the healthcare environment. Topics include public policy development, executive decision making, strategic business alliances, change management, enterprise wide strategic planning, stakeholder engagement, training and development, information governance, cultural diversity and ethics. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5397. HIM Directed Practicum.**

This course provides a one semester, part-time practicum experience in a healthcare or related organization. Included is an orientation to the organization and completion of a project suitable for implementation at the site. Department approval required

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIM 5399A. Thesis.**

This course represents a student's initial thesis enrollment to initiate the thesis project. No thesis credit is awarded until completion of HIM 5399B. Thesis is graded on a credit (CR), progress (PR), no credit (F) basis.

Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIM 5399B. Thesis.**

This course is a student's continued enrollment in the thesis. The student continues to enroll in this course until the thesis is submitted for binding. This course is repeatable for credit until the thesis is completed. Course is graded on a credit (CR), progress (PR), no credit (F) basis. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## St. David's School of Nursing

Nursing Building

Round Rock Campus

Round Rock, TX

T: 512.716.2900 F: 512.716.2911

<http://www.nursing.txstate.edu/>

### Vision

The St. David's School of Nursing at Texas State University will provide supportive and creative educational programs, which inspire those who teach and those who learn, based on mutual respect and a commitment to contribute to the health of individuals, families, populations, communities, and the environment worldwide.

### Mission

St. David's School of Nursing educates and prepares graduates, using innovative teaching strategies and state-of-the-art technology. Graduates provide ethical, safe, and effective patient-centered care and contribute to present and emerging research and health management practices. Graduates demonstrate competence in clinical judgment, collaborate as members of the interprofessional healthcare team, and utilize scientifically-based interventions. As caring professional nurses, graduates manage illness; promote, maintain, and restore health; and provide end-of-life care for diverse individuals, families, populations, and communities across the lifespan.

### Values

In pursuing excellence in nursing education, we the faculty and staff of the St. David's School of Nursing are guided by shared values. We believe in:

- educational opportunities which provide for intellectual and professional growth and that challenge students to excel in nursing,
- a holistic approach to nursing education across the continuum of health and the lifespan,
- diversity and a spirit of inclusiveness with respect for the dignity and moral wholeness of every person without conditions or limitations,
- cultivation of character and civility through the modeling of honesty, integrity, caring, compassion, fairness, respect, and ethical behavior,
- teaching and learning based on student involvement and free exchange of ideas and diverse perspectives,
- research, scholarship, and creative activity as a source for evidence-based practice and generation of new knowledge as an expression of the human spirit,
- commitment to public service and advocacy as a resource for personal, educational, cultural, and economic development in promotion of a healthy environment,
- caring, thoughtful reflection, collaboration, planning, and evaluation to meet diverse and changing healthcare needs, practices, and resources,
- professional competency, systematic use of the nursing process, leadership, critical reasoning, and lifelong learning leading to safe, quality patient care, and
- interprofessional activity allowing for the advancement of science and positive patient outcomes.

## Goals

We, the faculty, are committed to:

- equip graduates to adapt to rapid changes in healthcare delivery and practice,
- provide educational programs to prepare registered nurses at the M.S.N. and/or the doctor of nursing practice (D.N.P.) or Ph.D. levels,
- develop an overall plan for faculty scholarship,
- pursue funding to promote diversity in the admission and graduation of students,
- provide faculty access to professional development,
- assess, identify, and develop a plan to address community needs,
- develop educational partnerships with community organizations and other community entities in order to obtain input for the development of academic and service delivery programs to enhance community health knowledge,
- become a continuing nursing education (CNE) provider through the Texas Nurses Association (TNA), and
- collaborate with University Advancement and Development to support a sustainable plan for nursing programs.

## Master of Science in Nursing (M.S.N.)

- Major in Family Nurse Practitioner (p. 942)

## Master of Science in Nursing (M.S.N.), Major in Family Nurse Practitioner

### Major Program

The master of science in nursing (M.S.N.) program is a 21-month (5-term) program in which registered nurses (RNs) with a bachelor of science in nursing (B.S.N.) degree will advance their skills to the entry level for certification as a Nurse Practitioner (NP), one of the four advanced practice nursing roles. Instruction will be in a hybrid format with twice per term meetings at the School of Nursing in Round Rock, to assure that advanced level competencies have been met. The program will teach the NP to treat the whole family; however, that family chooses to identify itself. As a result, graduates will be prepared to treat diverse populations, with knowledge to promote health and to assess patients of all ages. Beyond focusing on the family as a population, the program will emphasize the primary care environment and recruit nurses interested in practicing in rural areas, to mitigate the burgeoning shortage of primary care providers both rurally and overall. In addition to achieving certification as a Family Nurse Practitioner (FNP), graduates of the program will have developed competence in the theory and techniques of integrative health.

In addition to meeting all relevant professional competencies, M.S.N. graduates will be qualified to sit for one or more of the following certification exams:

- American Nurses Credentialing Center (ANCC) Certification Exam (FNP)
- American Academy of Nurse Practitioners (AANP) Certification Exam (FNP)

## Nursing Program Student Educational Outcomes

At the completion of the M.S.N. program, a graduate of the St. David's School of Nursing will be able to:

- integrate nursing and related sciences into the delivery of advanced nursing care to diverse populations,
- incorporate current and emerging genetic/genomic evidence as well as biopsychological paradigms in providing advanced nursing care to individuals, families, and communities while accounting for patient values and clinical judgment,
- design nursing care for a clinical or community-focused population based on biopsychosocial, public health, nursing, and organizational sciences,
- evaluate the nutritional, vitamin, supplemental, herbal interventions in individuals, groups, and communities,
- apply ethical analysis and clinical reasoning to assess, intervene, and evaluate advanced nursing care delivery,
- synthesize evidence for practice to determine appropriate application of interventions across diverse populations,
- use quality processes and improvement science to evaluate care and ensure patient safety for individuals and communities,
- integrate organizational science and informatics to make changes in the care environment to improve health outcomes,
- analyze nursing history to expand thinking and provide a sense of professional heritage and identity, and
- synthesize integrative practices based on biopsychoneurological scientific underpinnings, cognitive neuroscience, and psychoneuroimmunology.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/nurs.html>.

## Course Work Requirements

### Advanced Practice Core

NURS 5301	Advanced Pathophysiology	3
NURS 5202	Advanced Health Assessment	2
NURS 5102	Advanced Health Assessment Practicum	1
NURS 5303	Advanced Pharmacotherapeutics	3

### Theoretical Foundation

NURS 5204	Fundamentals of Appraisal and Translational Research I	2
NURS 5205	Health Care Leadership for a Changing World	2
NURS 5106	Fundamentals of Appraisal and Translational Research II	1
NURS 5107	Fundamentals of Appraisal and Translational Research III	1

### Family Population Skills

NURS 5410	Adult/Gerontology Primary Care	4
NURS 5310	Adult/Gerontology Primary Care Practicum	3
NURS 5311	Behavioral Health Primary Care	3
NURS 5141	Reproductive, Sexual and Obstetrical Health Practicum	1
NURS 5430	Pediatric & Adolescent Primary Care	4
NURS 5330	Pediatric & Adolescent Primary Care Practicum	3



NURS 5341	Reproductive, Sexual and Obstetrical Health	3
<b>Integrative Nursing Specialty</b>		
NURS 5450	Integrative Family Primary Care	4
NURS 5350	Integrative Family Primary Care Practicum	3
NURS 5351	Theoretical Foundations of Advanced Integrative Nursing	3
NURS 5208	Current Issues in Advanced Practice Nursing	2
Total Hours		48

Master's level courses in Nursing: NURS

## Courses Offered

### Nursing (NURS)

#### **NURS 5102. Advanced Health Assessment Practicum.**

This course emphasizes advanced health assessment techniques and skills common to patient evaluation and development of differential diagnoses. Advanced physical assessment skills and identifying common signs and symptoms related to physical examination will be developed. Restricted to MSN degree students only

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **NURS 5106. Fundamentals of Appraisal and Translational Research II.**

This course builds upon work begun in the first research course. Emphasis will be placed on writing an evidence-based scholarly paper or project in collaboration with a faculty member. Presentation of the findings and submission of a paper for publication will be required in the final semester. Restricted to MSN degree students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5107. Fundamentals of Appraisal and Translational Research III.**

This course is a continuation of work begun in previous courses and will result in an evidence-based scholarly paper or project. Presentation of the findings and submission of a paper for publication will be required. This is a culminating project for the entire course of study. Restricted to MSN degree students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5141. Reproductive, Sexual and Obstetrical Health Practicum.**

Students will integrate research evidence into practice with adolescent and adult patients while working in clinical settings in collaboration with other health care professionals. Students will utilize a systematic approach of assessment to develop advanced practice treatment plans for patients seeking care related to reproduction, sexual and obstetrical health. Restricted to MSN degree students only

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5202. Advanced Health Assessment.**

This course emphasizes advanced health assessment techniques and skills common to family practice. Advanced skills in laboratory evaluation, taking and assessing patient history, and diagnostic capabilities, which are sensitive to cultural and developmental needs of a variety of patients in diverse settings, will be developed. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5204. Fundamentals of Appraisal and Translational Research I.**

This course focuses on a variety of interest areas, related research and the evaluation of current research trends. There will be critique of research methodologies and outcomes into application within the clinical setting, as well as exploration of technological applications and student data compilations. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5205. Health Care Leadership for a Changing World.**

This course will utilize documents from the World Health Organization, current research in the concepts of complexity leadership skills, creating adaptive systems, and new views on communication and intersubjectivity in collaborative relationships within these systems. Research in mindfulness and reflective practice will be employed. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5208. Current Issues in Advanced Practice Nursing.**

The current professional and legal issues that influence advanced practice nursing, nursing education and the health care delivery system are discussed. Health care policy, changes in the economics of health care, and their impact on nursing are considered. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5301. Advanced Pathophysiology.**

In preparation for advanced practice, this course will expand understanding of the pathophysiology underlying dysfunctions and interrelatedness of the processes of normal physiology and pathophysiology across the continuum of disease and return to wellness. Applications will be made utilizing lifespan perspectives of the process. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5303. Advanced Pharmacotherapeutics.**

This course provides advanced knowledge in selecting pharmacologic agents and specific drugs, based on acute and chronic health problems in diverse populations. Knowledge of pharmacologic groups, indications and contraindications, dosing with special needs groups, adverse effects, and collaborative monitoring of pharmacotherapy and alternative therapies will be developed. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **NURS 5310. Adult/Gerontology Primary Care Practicum.**

This clinical experience encompasses adult through geriatric health care in a variety of clinical settings. Application of the principles for developing a differential diagnosis, clinical decision making, designing interventions for patient care, and treatment in a variety of clinical settings will be performed. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**NURS 5311. Behavioral Health Primary Care.**

This course includes family system theories and their application to families. Common behavioral health diagnoses, such as anxiety, depression, and co-existing mental and physical illness, are investigated in relation to the human lifespan. The prevalence and incidence of behavioral health issues are considered in terms of diagnosis and theory. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5330. Pediatric & Adolescent Primary Care Practicum.**

Students will integrate translational research evidence into practice with adolescent and pediatric patients while working in clinical settings in collaboration with other health care professionals. Students will utilize a developmental approach of assessing the pediatric and adolescent patient to create advanced practice treatment plans. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5341. Reproductive, Sexual and Obstetrical Health.**

This course examines issues of fertility and infertility in males and females as well as the diseases related to sexual health. Selected topics in obstetrics, genetics, adolescent sexuality, family planning, cancers, HIV/AIDS, and STI's will be explored. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5350. Integrative Family Primary Care Practicum.**

This course develops skills in utilization of holistic assessment, as well as application of the principles for developing a differential diagnosis, clinical decision making, and designing interventions and treatment in a variety of clinical settings. Evaluation of traditional and complementary/alternative methods for supporting health promotion will also be explored. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5351. Theoretical Foundations of Advanced Integrative Nursing.**

This course includes nursing theories and the interrelatedness to the advanced practice role. Mind and body interconnectedness, allopathic and alternative care models are discussed. The developmental processes between wellness and illness are considered. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5410. Adult/Gerontology Primary Care.**

This course focuses on the collection of data, pertinent laboratory findings, diagnostic tests, differential diagnoses and plans for therapeutic intervention. Integration of theory, health promotion, disease prevention, and clinical decision making in a variety of clinical care settings as applied to adults and older adults will be emphasized. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5430. Pediatric & Adolescent Primary Care.**

This course investigates the primary care management process to diagnose, treat, and follow up common illnesses of increasing complexity in pediatric and adolescents using family-centered and developmental perspectives. Perspectives of underserved populations in a variety of clinical settings will be explored. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5450. Integrative Family Primary Care.**

This course emphasizes the evaluation of clinical indications and contraindications, potential risks, and methods of accessing evidence-based information about complementary and alternative care, nutrition, herbs and dietary supplements. Skills in educating patients, communicating and collaborating with other health professionals, and documenting and reporting adverse events will be mastered. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Department of Physical Therapy

Health Professions Building Room 310B

T: 512.245.8351 F: 512.245.8736

<http://www.health.txstate.edu/PT>

Physical Therapy is a dynamic profession with an established theoretical and scientific base and widespread clinical application in the restoration, maintenance and promotion of optimal physical performance.

For more than one million people every day in the United States, physical therapists:

- Diagnose and manage movement dysfunction and enhance physical and functional abilities.
- Restore, maintain and promote not only optimal physical function but optimal wellness and fitness and optimal quality of life as it relates to movement and health.
- Prevent the onset, symptoms, and progression of impairments, functional limitations, and disabilities that may result from diseases, disorders, conditions, or injuries.

Physical therapists are essential participants in the health care delivery system. They assume leadership roles in rehabilitation, in prevention, health maintenance, and in programs that promote health, wellness, and fitness in professional organizations and the community. Physical therapists also play important roles both in developing standards for physical therapist practice and in developing health care policy to ensure availability, accessibility and optimal delivery of physical therapy services (Rothstein, 2001).

Social and economic trends point towards people with and without physical disability living longer as well as a growing population of uninsured individuals. In addition, the baby boom generation is entering the prime age of age-related conditions – heart attack, stroke, and musculoskeletal injury. Future medical developments will also permit higher survival rates for trauma cases resulting in the increased need for rehabilitation. Health promotion, another major area of expertise for physical therapists, has potential to diminish risk factors for certain pathologies and thereby promote a healthier population in any one community. Physical therapists, at a lower cost and risk than surgery and medication, can provide services to these groups of individuals that can enhance performance, restore function, improve mobility, relieve

pain, and prevent or limit permanent physical disabilities. The need for physical therapists will always be present. The U.S. Department of Labor, Bureau of Labor Statistics lists physical therapists as one of the fastest growing occupations, 2012-2022. These data project a 36% growth rate, prompting *US News and World Report* to rank physical therapy as the 6<sup>th</sup> “best job” among all professions, not just health care.

## Immunization Requirements

It is the policy of the College of Health Professions that each student must provide a health report completed by a physician and must take specific immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and the required forms may be obtained through the program/department/school office.

## Background Check and Drug Screening

As a condition for placement in some professional practice sites, some students are required to have a background check and/or drug screening to meet requirements set by individual sites. Information on the drug screening process will be provided by program/department/school. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for practitioner license status following graduation.

## Financial Assistance

Assistantships may be available for qualified applicants in the second and third year of the program. The office of The Graduate College can provide further information regarding scholarships.

## Doctor of Physical Therapy (D.P.T.)

- Major in Physical Therapy (p. 945)

## Doctor of Physical Therapy (D.P.T.), Major in Physical Therapy

### Major Program

The Department of Physical Therapy offers a graduate degree in physical therapy: doctor of physical therapy (D.P.T.). The program admits 40 students per year into a cohort based program. The D.P.T. is a 9-semester, 3-year, full-time graduate program. The program is accredited by the Commission on Accreditation of Physical Therapy Education. Graduates are eligible to take the licensure examination upon completion of the degree.

Physical therapy is defined as the care and services provided by or under the direction and supervision of a physical therapist. Physical therapists provide services to patients/clients who have impairments, functional limitations, disabilities, or changes in physical function and health status resulting from injury, disease, or other causes. They interact and practice in collaboration with a variety of professionals – physicians, dentists, nurses, educators, social workers, occupational therapists, speech-language pathologists, audiologists, and other personnel involved with the patient/client. Physical therapists provide prevention and promote health, wellness, and fitness. In addition they provide consultative services to health facilities, colleagues, business and community organizations, and agencies. Physical therapists provide health care to their patients/clients in a wide variety of settings, including but not limited to, physical therapy office practices, hospitals, rehabilitation

facilities, homes, long term care settings, schools, industrial settings, and athletic/fitness centers.

Physical therapist education is built on the knowledge and skills characteristically attributed to completion of a baccalaureate degree – general education that provides students with broad exposure to the humanities, arts, basic science, and social science; requirements that provide students with the opportunity to delve into a discipline at some depth; and electives that provide students with the opportunity to explore other interests. Additionally, admission to physical therapist education programs typically requires students to have completed a set of prerequisite courses in biology, chemistry, physics, statistics, psychology, and human anatomy and physiology.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/dpt.html>.

## Program Standards

Students enrolled in the physical therapy curriculum must maintain high scholastic standards and develop skills necessary to work effectively as a physical therapist with people with diverse needs. Students are expected to demonstrate emotional, mental, and physical fitness in their interactions with others, use skills and techniques that are generally accepted by the professional community and conform to the Code of Ethics of the American Physical Therapy Association and the laws of the State of Texas. A student’s acceptance into the program does not guarantee that student’s fitness to remain in the program. The faculty is responsible for assuring that only those students who continue to meet academic and professional behavior standards are allowed to continue in the program.

## Evaluating Student’s Professional Behavior

Members of the faculty, using their professional judgment, evaluate student’s professional behavior continuously. Students receive information and counseling related to their professional behavior performance from faculty members, their advisors, and their clinical education supervisors. The criteria used by the faculty to make such judgments include instructors’ observations of course performance, evaluation of student’s performance in simulated practice situations, supervisors’ evaluations of student’s performance in clinical situations, generic abilities/professional behavior assessment, assessment of clinical skills, and adherence to the Code of Ethics. Relevant expectations are explicit in each course syllabus. Students who are not making satisfactory progress or who are not meeting program standards will be encouraged to withdraw from the program.

In this context, the term “unsatisfactory progress in the program” refers to an academic judgment made regarding the student’s professional behavior. It is a judgment that the student has failed to meet academic standards rather than a judgment made on the basis of the student’s violation of valid rules of conduct. Disciplinary matters are referred to the assistant dean of students.

## Required Withdrawal from the Program

If a faculty member believes that a student is not making satisfactory progress or meeting program or university standards, they should discuss the situation with the student and the student’s advisor.

The department chair, after considering the advisor's recommendations and after meeting with the student will determine whether the student will be allowed to remain in the program. The department chair need not meet with the student before making a decision if the department chair has given the student reasonable opportunity to meet and the student has either failed or refused to meet. The student will be notified of the department chair's decision in writing within ten working days of the department chair's meeting with the student.

If the student is dissatisfied with the department chair's decision, they may appeal to the dean of the College of Health Professions. However, in order for an appeal to be considered, the student must submit a written notice for an appeal to the department chair within 10 working days of receiving the department chair's decision. The dean will consider the matter based on results compiled by the department chair and notify the student of this or her decision within 10 working days of receipt of the appeal from the department chair.

## Clinical Education

All students are required to complete part-time clinical education experiences in physical therapy facilities within the Central Texas area and in the Texas State Physical Therapy Clinic. The full-time clinical experiences may be completed in facilities within or outside of the Central Texas area. The additional costs of travel during the part-time experiences, as well as the cost associated with temporary relocation during the full-time experiences, are the responsibility of the student.

## Course Work Requirements

### Physical Therapy Courses

PT 7114	Professional Issues	1
PT 7115	Evidence-Based Practice	1
PT 7125	Clinical Decision Making I	1
PT 7135	Clinical Decision Making II	1
PT 7155	Clinical Decision Making III	1
PT 7165	Clinical Decision Making IV	1
PT 7311	Anatomy I: Structural Anatomy	3
PT 7231	Anatomy II – Spine	2
PT 7241	Anatomy III - Lower Extremity	2
PT 7251	Anatomy IV - Upper Extremity	2
PT 7294	Special Issues in Physical Therapy	2
PT 7312	Patient Care Skills I	3
PT 7462	Patient Care Skills II	4
PT 7313	Body Systems I – Pathology	3
PT 7333	Body Systems II – Cardiovascular/pulmonary System	3
PT 7263	Body Systems III – Diagnostics	2
PT 7326	Neuroscience I: Functional Neuroanatomy	3
PT 7428	Therapeutic Interventions	4
PT 7474	Management Issues	4
PT 7336	Neuroscience II-Pediatrics	3
PT 7346	Neuroscience III	3
PT 7356	Neuroscience IV	3
PT 7328	Examination Techniques	3
PT 7539	Musculoskeletal I – Spine	5
PT 7549	Musculoskeletal II - Lower Extremity	5
PT 7559	Musculoskeletal III - Upper Extremity	5

PT 7327	Research in Physical Therapy I	3
PT 7347	Research in Physical Therapy II	3
PT 7167	Research III in Physical Therapy	1
PT 7177	Research IV in Physical Therapy	1
PT 7187	Research V in Physical Therapy	1
PT 7197	Research VI in Physical Therapy	1
<b>Clinical Education Hours</b>		
PT 7130	Clinical Education Orientation	1
PT 7150	Directed Clinical Experience	1
PT 7370	Clinical Education I	3
PT 7480	Clinical Education II	4
PT 7481	Clinical Education III	4
PT 7690	Clinical Education IV	6
Total Hours		99

Doctoral level courses in Physical Therapy:

## Courses Offered

### Physical Therapy (PT)

#### PT 7114. Professional Issues.

This course serves as an introduction to the historical, current, and future issues faced by the physical therapy profession

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PT 7115. Evidence-Based Practice.

This course introduces the concept of evidence-based practice in physical therapy including the formulation of answerable clinical questions, methods of obtaining peer-reviewed evidence to those clinical questions, and how to critically appraise evidence once located

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PT 7125. Clinical Decision Making I.

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem-based learning environment. Students will identify complicating issues in patient care including physical, psychosocial, financial, and environmental factors as well as develop possible solutions to identified problems

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PT 7130. Clinical Education Orientation.

This course provides an orientation to the requirements of the clinical education course sequence including patient education as well as the legal, ethical and professional requirements of physical therapy practice

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PT 7135. Clinical Decision Making II.

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem-based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken through the first year spring semester

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7150. Directed Clinical Experience.**

A structured clinical experience in which the student will have the opportunity to demonstrate the ability to apply the theory and clinical skills acquired during didactic course work into the clinical environment. This course will be completed in the Texas State Physical Therapy Clinic. This course is repeatable for credit

**1 Credit Hour. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7155. Clinical Decision Making III.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken through the second year fall semester

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7165. Clinical Decision Making IV.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken thus far in the program

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7167. Research III in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. This course involves a literature review and identification of a practice-based research question. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7177. Research IV in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course involves development of data collection tools and strategies in a practice-based research environment. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7187. Research V in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course includes patient outcomes data collection in a practice-based research environment. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7190. Independent Study in Physical Therapy.**

An in-depth independent study of a singular problem or related problem in the dynamic field of physical therapy and health care. Emphasis will be on the relevance of the problem and the value to the participant. May be repeated twice for credit

**1 Credit Hour. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7197. Research VI in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course includes completion of data collection and analysis for an oral presentation and final paper. Completion of this last course is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7231. Anatomy II – Spine.**

Study of static and dynamic aspects of the vertebral column and skull including bony landmarks, muscular, ligamentous attachments, and blood and nerve supply will be studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7241. Anatomy III - Lower Extremity.**

Study of static and dynamic aspects of the lower extremity including bony landmarks, muscular, ligamentous attachments, and blood and nerve supply will be studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7251. Anatomy IV - Upper Extremity.**

Study of static and dynamic aspects of the upper extremity including bony landmarks, muscular, ligamentous attachments and blood and nerve supply studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7263. Body Systems III – Diagnostics.**

Pharmacology, medical imaging, electroneuromyography, and other selected diagnostic tests as related to physical therapist practice. Content emphasizes expected and adverse effects of selected medications, documentation of results of medical imaging procedures, and the use of muscle and nerve integrity testing via nerve conduction velocity techniques

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7294. Special Issues in Physical Therapy.**

Provides opportunities for learning through lecture covering multiple physical therapy practice settings and areas of specialization. Also designed to provide information relevant to the licensure process, preparation for the licensure exam, and test-taking strategies to enhance performance. This course is repeatable for credit. Prerequisite: Taken in last semester of program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7311. Anatomy I: Structural Anatomy.**

Introduction to the structure and function of the human body with emphasis on the skeletal, muscular, and nervous system. Content includes laboratory study of the human cadaver

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**PT 7312. Patient Care Skills I.**

This course introduces students to basic patient care skills and documentation. Topics emphasized include body mechanics, patient positioning, mobility, transfers, patient communication/instruction skills, and documentation format. Students will also receive an introduction to therapeutic exercise, health promotion and wellness, and infection control as well as patient rights and reimbursement issues

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7313. Body Systems I – Pathology.**

Normal and abnormal organ system function as related to physical therapist practice with emphasis on the musculoskeletal, neuromuscular, cardiovascular/pulmonary, and integumentary systems. Content includes tissue inflammation and repair, infection, degenerative processes, and changes related to processes of aging

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7326. Neuroscience I:Functional Neuroanatomy.**

Structure and function of the central, peripheral, and autonomic nervous systems in the context of lifespan human development

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7327. Research in Physical Therapy I.**

Three-course sequence introducing the physical therapy student to research and statistical methodologies. This initial course emphasizes the application of basic principles of the scientific method for: 1) critically reviewing physical therapy literature; 2) developing research proposals; and 3) identifying the tools necessary for analysis and assessment of clinical practice patterns

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7328. Examination Techniques.**

This course introduces students to basic evaluation and examination techniques used in physical therapy. Students will perform basic orthopedic, neurologic, cardiopulmonary, and integumentary evaluations in open lab and case-based learning environments. An emphasis will be placed on body mechanics, communication skills, positioning, and draping

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7333. Body Systems II – Cardiovascular/pulmonary System.**

Fitness, health, wellness, and normal and abnormal function of the cardiovascular/pulmonary and metabolic systems as related to physical therapist practice. Content emphasizes basic principles of care in respiratory therapy, chest physical therapy, electrocardiography, exercise testing, exercise prescription, and cardiac rehabilitation

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7336. Neuroscience II-Pediatrics.**

Study of typical growth and motor development and diseases, disorders, and dysfunction affecting postural control from birth to young adulthood. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7346. Neuroscience III.**

This course studies the neurologic diseases, disorders, and dysfunction affecting postural control in the adult. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7347. Research in Physical Therapy II.**

Three-course sequence introducing the physical therapy student to research and statistical methodologies. This second course emphasizes the proposal writing aspect of research, building on knowledge of research methods and statistics gained in PT 7327. Includes introduction to statistical software packages used for data-analysis and generating bibliographic material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7356. Neuroscience IV.**

This course studies the neurologic diseases, disorders, and dysfunction affecting postural control in the adult. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7363. Body Systems III – Cardiovascular/Pulmonary System.**

Fitness, health, wellness, and normal and abnormal function of the cardiovascular/pulmonary and metabolic systems as related to physical therapist practice. Content emphasizes basic principles of care in respiratory therapy, chest physical therapy, electrocardiography, exercise testing, exercise prescription and cardiac rehabilitation. This course is repeatable for credit

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7370. Clinical Education I.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**PT 7428. Therapeutic Interventions.**

Provides an introduction to basic therapeutic interventions. Topics emphasized include current theory and application of tissue mobilization, light, heat, cold, ultrasound, hydrotherapy, compression, and electrical currents as well as assistive devices, traction, and isokinetics. Introduces therapeutic exercise including energy metabolism, muscle physiology, and response to exercise

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7462. Patient Care Skills II.**

This course introduces physical therapy care for medically complex patients with multi-system involvement. Content will focus on integumentary care and wound management, acute care/ICU, orthotics, and prosthetics. Complicating factors such as age, malnutrition, pain, obesity, diabetes, and other comorbidities will also be included

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7474. Management Issues.**

Study of basic management theories, principles, and practices as they relate to the health care delivery system, reimbursement resources and issues, and internal and external forces that impact health care delivery

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7480. Clinical Education II.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting. Prerequisites: good academic standing

**4 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7481. Clinical Education III.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting. Prerequisites: satisfactory progress in PT 7480, and good academic standing

**4 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7539. Musculoskeletal I – Spine.**

Study of static and dynamic aspects of the vertebral column and skull studied through lecture, lab, literature review, and independent study. Knowledge and skill will be integrated to identify problems, prognosis, functional goals, and to develop comprehensive intervention programs related to the spine, including preventative health planning

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7549. Musculoskeletal II - Lower Extremity.**

Study of static structural and dynamic aspects of the lower extremity. Emphasizes the effects and affects of forces on function. Clinical decision-making involving the integration of knowledge and skill to identify problems, establish goals, and develop comprehensive physical therapy programs related to the region of study

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7559. Musculoskeletal III - Upper Extremity.**

Study of static structural and dynamic aspects of the upper extremity. Emphasizes the effects and affects of forces on function. Clinical decision-making involving the integration of knowledge and skill to identify problems, establish goals, and develop comprehensive physical therapy programs related to the region of study

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7690. Clinical Education IV.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Department of Respiratory Care

Health Professions Building Room 351

T: 512.245.8243 F: 512.245.7978

<http://www.health.txstate.edu/rc>

## Vision Statement

The vision of the Department of Respiratory Care is to produce quality graduates who meet the expectations of the communities of interest served by the program, to establish and maintain an excellent national reputation, and to be a leader in innovative educational endeavors in the profession. As a means to accomplish the vision, the respiratory care departmental goals include:

- advancing the curriculum as national higher education and professional standards evolve,
- maintaining accreditation by meeting new essentials set by CoARC in respiratory care and polysomnography theory & clinical practice,
- recruiting and maintaining racial, gender, and ethnic diversity in both the faculty and students,
- encouraging faculty to pursue professional development through participation in advanced specialty credentialing and professional continuing education,
- encouraging faculty & students to participate in professional organizations and community service projects,
- increasing external funding for the university, college, and department through grant activity and entrepreneurship,
- utilizing the Texas State Sleep Center to meet the educational and research needs of the students and faculty while meeting the diagnostic and treatment needs of the Texas State campus faculty, staff and student body,
- utilizing the Texas State Sleep Center to meet the sleep diagnostic and treatment needs of San Marcos and the surrounding region as it pertains to education and research, and
- encourage students to pursue graduate education to advance competency in areas of education, research, management, and professional specialties.

## Certificate

- Polysomnographic Technology (p. 950)

# Certificate in Polysomnographic Technology

## Certificate Program

The Department of Respiratory Care offers a graduate certificate in polysomnographic technology. The nine-month program is accredited by the Commission on Accreditation for Respiratory Care and graduates are eligible to immediately sit for national credentialing examinations upon completion of the certificate. Polysomnographic technologists, or sleep technologists, are health care practitioners who record and collect diagnostic sleep data as well as make recommendations to physicians for appropriate therapy to treat sleep disorders. Gathering extensive physiologic data that occurs while sleeping, sleep studies measure multiple parameters including breathing efforts, blood oxygen levels, electrical activity of the brain (EEG), electrocardiogram (ECG), eye movement (ROC and LOC), muscle activity (EMG), and many other physiological responses.

## Admission Policy

Admission is selective and competitive. The curriculum sequence begins once per year starting each fall and completing in the spring.

For information regarding admission application requirements and deadlines, please visit The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html%23Poly](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html%23Poly).

Following the application deadline, the PSG admissions committee begins the application review process. Cohort size is limited due to accreditation standards for student/teacher ratios. Successful candidates are notified by mail and email. Unsuccessful candidates are notified by email and are provided with information regarding the reapplication process.

## Immunization Requirements

It is the policy of the College of Health Professions that each student must provide a health report completed by a physician and must take specific immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and the required forms may be obtained through the program/department/school office.

## Background Check and Drug Screening

As a condition for placement in some professional practice sites, some students are required to have a background check and/or drug screening to meet requirements set by individual sites. Information on the drug screening process will be provided by program/department/school. Previous misdemeanor or felony convictions under various titles of the Texas Penal Code may affect eligibility for practitioner license status following graduation.

## Clinical Education

All students are required to complete clinical education experiences in sleep center facilities within the Central Texas area and in the Texas State Sleep Center. The costs of travel during clinical experiences are the responsibility of the student.

## Course Work Requirements

		Year 1		
	Fall Semester	Hours	Spring Semester	Hours
RC 5310		3	RC 5313	3
RC 5211		2	RC 5214	2
RC 5312		3	RC 5215	2
		8	7	

Total Hours: 15

## Certificate Completion

Upon completion of the nine-month program, a graduate certificate will be presented to the student and notation made to the individual transcript. If further graduate education is desired, the student may be eligible to apply the 15 polysomnography graduate hours toward completion of the master of science in interdisciplinary studies (M.S.I.S.) degree through the Department of Occupational, Workforce, and Leadership Studies at Texas State.

Courses in Respiratory Care: RC

## Courses Offered

### Respiratory Care (RC)

#### RC 5211. Polysomnography Instrumentation I.

Designed to teach the function, operation, and design of electroneurodiagnostic equipment. Monitoring devices, electrode application, and patient connection will be covered in detail. Prerequisite: Departmental approval

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### RC 5214. Polysomnography Instrumentation II.

Advanced study of waveform characteristics and montage development, filters, and PSG electronics. Signal pathways, reference electrodes, impedance checking and filter settings in calibration waves will be covered. Prerequisite: Departmental approval

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### RC 5215. Clinical Polysomnography-Sleep Staging II.

Advanced clinical education in sleep staging rules, light, delta and REM sleep scoring and analysis. EEG, EMG, ECG and respiratory events will be discussed in depth and are components of the polysomnogram report. A research project and presentation will be assigned by the faculty.

Prerequisite: Departmental approval required

**2 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### RC 5310. Fundamentals of Polysomnography.

Introduction to the physiology of sleep, including sleep neurology, sleep architecture, and classification of sleep disorders. Review of basic cardiac physiology and ECG arrhythmia recognition. Sleep pathologies will be discussed according to etiology, pathophysiology, symptoms, diagnosis, treatment, and prognosis. Prerequisite: Departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5312. Clinical Polysomnography-Sleep Staging I.**

Direct patient diagnostic monitoring is performed under close supervision in a sleep lab. Differential amplifiers, amplifier calibration, artifact correction and the professional role of the sleep tech will be demonstrated. A research project and presentation will be assigned by the faculty. Prerequisite: Departmental approval required

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5313. Polysomnographic Therapeutic Intervention.**

In-depth study of the treatments available for sleep apnea including, CPAP, BiPAP, oxygen therapy, patient adjunctive fitting, surgical intervention, and the role of the sleep tech in titration. Special attention will be given to titration algorithms, nocturnal seizure disorder studies, REM behavior disorder studies, MSLT's, and MTW's. Prerequisite: Departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## College of Liberal Arts

**Dean**

Michael J. Hennessy, Ph.D.  
Flowers Hall Room 313  
T: 512.245.2317 F: 512.245.8291  
<http://www.txstate.edu/liberalarts>

**Associate Dean**

Charles Bousman, Ph.D.

**Associate Dean**

Nancy J. Grayson, Ph.D.

**Associate Dean**

Susan B. Day, Ph.D.

**Center Directors/Department Chairs/Program Directors**

International Studies—Dennis Dunn, Ph.D.  
Diversity and Gender Studies—Audwin Anderson, Ph.D.  
Study of the Southwest—J.F. de la Teja, Ph.D.  
Anthropology—Elizabeth Erhart, Ph.D.  
English—Daniel T. Lochman, Ph.D.  
Geography—Alberto Giordano, Ph.D.  
History—Mary C. Brennan, Ph.D.  
Modern Languages—Lucy Ditto Harney, Ph.D.  
Philosophy—Craig Hanks, Ph.D.  
Political Science—Kenneth L. Grasso, Ph.D.  
Psychology—William L. Kelemen, Ph.D.  
Sociology—Chad L. Smith, Ph.D.

## Department of Anthropology

Evans Liberal Arts Building Room 266  
T: 512.245.8272 F: 512.245.8076  
<http://www.txstate.edu/anthropology>

For all graduate majors the educational goals of the department are to

1. give students the highest quality graduate-level education possible,
2. provide students interested in continuing their graduate education in anthropology at the Ph.D. level the appropriate basis to successfully compete for entrance into top-tier programs,
3. provide students interested in nonacademic careers that require, or are facilitated by, an advanced degree in anthropology the education, tools and training necessary to secure employment, and

4. produce professional, ethical, and productive graduates.

The graduate curriculum, fieldwork opportunities, laboratories, and research centers provide an excellent foundation for student research, grant writing experience, and numerous training and educational activities.

## Faculty Interests

Faculty in the Department of Anthropology have varied research interests and have active research programs in Texas, Peru, Mexico, Belize, Madagascar, and South Africa. Research interests in cultural and linguistic anthropology include anthropological theory, political economy, globalization, race and gender, Latino/a issues, Latin American cultures, West African cultures and languages, sociolinguistics, phonetics, and the applied area of medical anthropology. Research interests in archaeology include complex societies in Mesoamerica, South America and the U.S., iconography, geoarchaeology, ceramic and lithic analysis, hunter-gatherers and agricultural groups in Texas and Africa, and the applied area of Culture Resource Management. Research interests in biological anthropology include human biological variation, bioarchaeology, primate behavioral ecology, primate cognitive evolution, primate behavioral development, primate conservation, and the applied area of forensic anthropology.

## Laboratories and Centers

The Department of Anthropology houses fully equipped laboratories and centers for training and research in cultural anthropology, linguistic anthropology, archaeology, and biological anthropology. The Center for Archaeological Studies (CAS) provides student training in archaeological research in the New and Old Worlds and Cultural Resource Management in Texas. The Archaeological Curation Facility (ACF) offers students curatorial training and is 1 of 3 facilities located at a Texas university certified by the Texas Historical Commission as a State Curatorial Facility. The Center for the Arts and Symbolism in Ancient America (CASAA) is an academic center for students to study prehistoric works of ancient art in the Americas. The Forensic Anthropology Center at Texas State (FACTS) gives students hands-on experience with forensic casework, excavation and recovery methods, and laboratory analysis of human remains. At the Forensic Anthropology Research Facility (FARF) students are able to conduct research on taphonomy and human decomposition.

## Financial Assistance

Scholarships are available to qualified students on a competitive basis through The Graduate College. Scholarships available include The Graduate College Scholarship, Celebrity Classic Scholarship, and The Graduate College Thesis Research Support Fellowship. For further information regarding applications for these scholarships, visit [http://www.gradcollege.txstate.edu/Prospect\\_Students/Fin\\_Grad\\_Ed/Scholarships.html](http://www.gradcollege.txstate.edu/Prospect_Students/Fin_Grad_Ed/Scholarships.html).

The Department of Anthropology also has a limited number of graduate instructional assistantships whereby students are employed to assist faculty with their instructional responsibilities for various amounts of time, ranging from five to twenty hours per week.

## Master of Arts (M.A.)

- Major in Anthropology (p. 952)

## Minor

- Anthropology (p. 958)

# Master of Arts (M.A.), Major in Anthropology

## Major Program

The purpose of the master of arts (M.A.) in anthropology at Texas State is to

1. give students the highest quality graduate-level education possible,
2. provide students interested in continuing their graduate education in anthropology at the Ph.D. level the appropriate basis to successfully compete for entrance into top-tier programs,
3. provide students interested in non-academic careers that require, or are facilitated by, an advanced degree in anthropology the education, tools and training necessary to secure employment, and
4. produce professional, ethical, and productive graduates.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/anth.html>.

## Concentration in Archaeology

### Major Courses

ANTH 5311	Seminar in Cultural Anthropology	3
ANTH 5312	Seminar in Biological Anthropology	3
ANTH 5313	Seminar in Archaeology	3

### Concentration Courses

ANTH 5305	Anthropological Statistics	3
ANTH 5306	Anthropology and Art	3
ANTH 5315	Archaeological Artifact Identification and Analysis	3
Anthropology Electives		6
Advisor-approved Free Electives		6

### Thesis Courses

Choose 6 hours from:		6
ANTH 5199B	Thesis	
ANTH 5299B	Thesis	
ANTH 5399A	Thesis	
ANTH 5399B	Thesis	
ANTH 5599B	Thesis	
ANTH 5999B	Thesis	

Total Hours 36

## Concentration in Biological Anthropology

### Major Courses

ANTH 5311	Seminar in Cultural Anthropology	3
ANTH 5312	Seminar in Biological Anthropology	3
ANTH 5313	Seminar in Archaeology	3

### Concentration Courses

ANTH 5305	Anthropological Statistics	3
ANTH 5333	Research Design in Biological Anthropology	3

ANTH 5343	Human Variation and Adaptation	3
Anthropology Electives		6
Advisor-approved Free Electives		6
<b>Thesis Courses</b>		
Choose 6 hours from:		6
ANTH 5199B	Thesis	
ANTH 5299B	Thesis	
ANTH 5399A	Thesis	
ANTH 5399B	Thesis	
ANTH 5599B	Thesis	
ANTH 5999B	Thesis	
Total Hours		36

## Concentration in Cultural and Linguistic Anthropology

### Major Courses

ANTH 5311	Seminar in Cultural Anthropology	3
ANTH 5312	Seminar in Biological Anthropology	3
ANTH 5313	Seminar in Archaeology	3

### Concentration Courses

ANTH 5361	Field Methods in Cultural Anthropology	3
Anthropology Electives		12
Advisor-approved Free Electives		6

### Thesis Courses

Choose 6 hours from:		6
ANTH 5199B	Thesis	
ANTH 5299B	Thesis	
ANTH 5399A	Thesis	
ANTH 5399B	Thesis	
ANTH 5599B	Thesis	
ANTH 5999B	Thesis	

Total Hours 36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the



proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Anthropology: ANTH

## Courses Offered Anthropology (ANTH)

### ANTH 5105. Anthropology Research.

This practicum is designed to provide a student with credit while conducting independent research in the field or a lab setting. This practicum may be repeated twice with different content. Prerequisite: permission of a student's faculty mentor and the graduate advisor  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

### ANTH 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

### ANTH 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

### ANTH 5300. Foundation Studies in Anthropology.

Students develop knowledge and skills required for success in graduate-level coursework in Anthropology. Course content varies depending on academic preparation. This course does not earn graduate degree credit. Repeatable up to 9 hours with different emphasis. Prerequisite: Approval of graduate advisor in Anthropology  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

### ANTH 5301. Advanced Principles of Cultural Anthropology.

This course is an ethnographically-based analysis of major theoretical positions and debates in contemporary anthropology. (Stacked course with ANTH 3301.)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**ANTH 5302. Practicum in Teaching Anthropology.**

An introduction to key concepts and practices in the teaching of college-level Anthropology. The course provides training in the practical aspects of classroom instruction. Required for first-year teaching and instructional assistants in the Anthropology Department. This course does not count toward degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ANTH 5303. Speech Analysis.**

The focus of this course is the analysis of human speech sounds. It includes description of the acoustic properties of speech sounds, transcription of sounds using the International Phonetic Alphabet system, an understanding of the acoustic theories of speech, and practical experience in forensic speakers' identification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5304. Sociolinguistics.**

The focus of this course is on the complex interrelationships between language and other aspects of culture. Methods of sociolinguistics, theories of sociolinguistics, and current issues regarding the nature of language variation and change will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5305. Anthropological Statistics.**

In this course students will learn how to statistically analyze anthropological data. Students will gain a firm understanding of basic quantitative statistics, will be able to evaluate quantitative methods presented in anthropological research papers, and will be prepared for classes in more advanced statistical methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5306. Anthropology and Art.**

In this course students will investigate the function of art and symbolism in pre-literate archaeological cultures that existed at the tribal and chiefdom levels of political and social development. A multidisciplinary focus will use anthropology and art historical approaches as research tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5307. History of Evolutionary Thought.**

This course discusses the impact of evolutionary discourse within the context of its history. Students will develop a thorough understanding of evolution and its importance to anthropology, as well as to other scientific disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5308. Cultural Resource Management and Archaeology.**

In this course students will examine various topics relevant to cultural resource management including state and federal laws, survey, testing, mitigation, and developing final reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5309. Culture, Medicine and the Body.**

This course explores how the human body, functions of the body, and the practices of medicine and healing are situated and contextualized within cultural frameworks. Case studies cover body and health-related topics over the life course, from birth to death

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5310. Theories and Issues in Anthropology.**

This course explores major theoretical and historical developments in anthropology, highlighting the discipline's unique four-field perspective that includes archaeology, biological and cultural anthropology, and anthropological linguistics. Topics stress the importance of anthropological thought in key scientific discoveries and cultural debates

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5311. Seminar in Cultural Anthropology.**

In this course, students will learn the historical foundations of cultural anthropology, its key theories and methods, and examples of its contemporary practice. Topics will include evolutionism, functionalism, structuralism, ethnoscience, neo-Marxism, postmodernism, and modernity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5312. Seminar in Biological Anthropology.**

In this course, students will learn the historical foundations of biological anthropology, its key theories and methods, and examples of its contemporary practice in evolutionary theory, human variation, paleoanthropology, primatology, and skeletal biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5313. Seminar in Archaeology.**

In this course, students will learn the historical foundations of archaeology, its key theories and methods, and examples of its contemporary practice in New World and Old World archaeology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5314. Latin American Cultures.**

Comprehensive study of cultures from Latin America. (Stacked course with ANTH 3314.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5315. Archaeological Artifact Identification and Analysis.**

This course will provide students with the skills, knowledge and ability to describe, characterize, and analyze artifacts commonly recovered from archaeological sites. Current theories covering the production and analysis of chipped and ground stone tools, ceramics, bone and other materials will be presented, and scientific analytical methods discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5316. The Origin and Evolution of Human Behavior.**

This course presents our current understanding of Old World Paleolithic Archaeology. The origin and evolution of hominid behavior, the initial colonization of the Old World, and the development of modern human behavior will be discussed for each continent. (Stacked course with ANTH 3316)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5317. Rock Art Field Methods.**

This course will train students in rock art field methods. They will gain first-hand experience recording rock art sites through photography, field sketches, mapping, and written inventories. Students will generate a visual and written description of the art, which they will use to infer and explain past human behavior. (Stacked course with ANTH 3317)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5318. Texas Archaeology.**

This course will present our current understanding of Texas archaeology. The environmental and social contexts of prehistoric, protohistoric, and historic records of Native American and Spanish occupations in Texas are discussed. (Stacked course with ANTH 3318.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5319. Human Growth and Development.**

This course covers the life history of humans from birth to death and investigates the biological and psychological changes that occur over a lifetime. (Stacked course with ANTH 3319)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5320. Rise of Civilization.**

This course examines the components that led to the dynamic state societies in Egypt, Sumeria, the Indus Valley, and China in the Old World and that of the Olmec in Mexico and Chavin in Peru. (Stacked course with ANTH 4320.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5321. Seminar in Forensic Anthropology.**

This course is designed as a critical survey of the theory and methodology utilized by forensic anthropologists. Through intensive review of the literature, the student will gain an appreciation for the development of the discipline, the techniques used in forensic skeletal analysis, and new research directions within the field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5322. Peoples and Cultures of Sub-Saharan Africa.**

Comprehensive study of cultures from Africa. (Stacked course with ANTH 3322.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5324. Mexican American Culture.**

This course examines the history and cultural practices of Mexican Americans, with a special emphasis on race, class, gender, and sexuality. Topics include historical heritage and transculturation, discrimination, organizations, activism, zoot suits, lowriders, gangs, *coloñias*, families, marriage, *quinceañeras*, machismo, domestic violence, gays and lesbians, religious practices, and the arts. (Stacked course with ANTH 3324.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5325. Medical Anthropology.**

This course focuses on how illness identities are culturally constructed, how adaptations or maladaptations to local environments affect health, how political and economic forces influence health and health behaviors, and how the practice of medical anthropology can contribute to solving urgent health issues around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5326. Field Methods in Forensic Anthropology.**

In this course students will learn how to locate, excavate and recover human remains, associated personal effects, and other materials in order to ensure legal credibility for all recoveries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5327. Anthropology of Religion and Fundamentalism.**

This course will examine the phenomenon of fundamentalism in a variety of religious traditions, both present and historical. Students will explore the political and social ramifications of fundamentalism in a world characterized by multiculturalism and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5328. Primate Cognition.**

This course covers historical and current views of the cognitive abilities of nonhuman primates and humans. (Stacked course with ANTH 3328)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5329. Comparative Juvenile Behavior.**

This course will give students a thorough understanding of the comparative method through examples from the development of juvenile animals. It will introduce students to socioecology, neurobiology, and life history markers, with information that they can apply across disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5332. Myths and Mound Builders.**

This course presents an anthropological approach to the iconography of the Native Americans of the Southeastern Ceremonial Complex. (Stacked course with ANTH 3332.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5333. Research Design in Biological Anthropology.**

This course provides students with an introduction to the principles and processes by which research projects in biological anthropology are devised and executed. It focuses on the issues of finding a topic to research, defining its scope and limitations, developing a research bibliography, and elaborating a research design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5335. The Anthropology of Native American Belief Systems.**

In this course students use anthropological approaches to investigate past and present Native American belief systems in order to determine the temporal range and evolving complexity of Native American religious and ritual expression

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5336. Community Research Project.**

This course gives students the opportunity to conduct hands-on anthropological research on a variety of topics in local or other communities. Students will undertake individualized research projects designed in conjunction with the professor. Students must consult with the professor prior to enrollment to design the research project and receive approval. (Stacked course with ANTH 3336)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5338. Geoarchaeology.**

This course will provide students with the knowledge and ability to interpret sediments and the nature of sediment accumulation at archaeological sites. The course will provide students with a foundation in sedimentology, natural depositional environments, weathering processes and soil development, stratigraphic analysis, archaeological site formation processes. (Stacked course with ANTH 3338)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5340. Paleoanthropology.**

Critical review of the human fossil record from the appearance of the earliest hominins to the appearance of modern human forms. (Stacked course with ANTH 3340.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5342. Primate Behavior.**

An organized course that examines current research in nonhuman primate studies from an anthropological perspective. (Stacked course with ANTH 3342.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5343. Human Variation and Adaptation.**

An organized course that examines human physical variation and adaptation from an evolutionary perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5345. Archaeology of Mexico.**

This course examines the development of early huntergatherers through the appearance of agriculture to the rise of civilization in Mesoamerica.

(Stacked course with ANTH 3345.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5347. Archaeology of North America.**

This course examines human settlement of North America from the end of the Pleistocene to European discovery. (Stacked course with ANTH 3347.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5349. The Incas.**

The Incas were the largest Pre-Columbian empire in the Americas. This course will explore the origins of this civilization and how they conquered such a large area of South America. Using archaeological and historic information the class will examine various aspects of Inca society including religion, economics, and kingship. (Stacked course with ANTH 3349)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5350. Gender and Sexuality in Cross Cultural Perspective.**

This course examines the relationships between women and men in societies around the world. (Stacked course with ANTH 3350.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5354. Latin American Gender and Sexuality.**

This course critically examines cultural constructions of gender and sexuality among indigenous, European, and mestizo populations throughout the Americas, with a special emphasis on identity and inequality in Greater Latin America. Topics include culture, identity, political economy, families, sexual practices, and globalization. (Stacked course with ANTH 3354.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5355. Seminar in Culture Theory.**

An intensive examination of the principal theoretical positions in cultural anthropology, with an emphasis on the preparation of students with ethnographic analysis and fieldwork. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5356. Andean Civilizations.**

This course is a survey of civilizations in the Andean region of South America. Using archaeological data the class will examine cultural developments in the region from the earliest hunters and gatherers to the Inca Empire, the largest state in the Americas at the time of European contact

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5360. Economic Anthropology.**

This course reviews central issues in economic anthropology using both case studies and theoretical writings. Analyzes production, exchange, distribution, consumption, property, economic surplus, and types of economic structure. (Stacked course with ANTH 3360.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5361. Field Methods in Cultural Anthropology.**

A training course in ethnographic field methods. (Stacked course with ANTH 4361.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5363. The Art and Archaeology of the Olmec.**

This course will present our current understanding of the art and archaeology of the Olmec culture, the earliest known civilization in North America. The Olmec culture is considered the influential foundation for later Mesoamerican civilizations such as the Maya and the Aztec. (Stacked course with ANTH 3363.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5373B. Theory in Linguistic Anthropology.**

In this course students will learn about the major theories of linguistic anthropology through reading and discussing classic and contemporary literature. Topics include language evolution, behaviorism, mentalism, structuralism, cognitive anthropology, ethnosemantics, universalism and linguistic relativism, symbolic anthropology, culture and gender, language and identity, ethnography of speaking, and language change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5373C. Theoretical Concepts in Archaeology.**

This course provides a broad survey of theory in archaeology as it is practiced throughout the world. It includes both historical perspectives and contemporary usage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5373E. Gross Human Anatomy.**

Students in this course examine the gross anatomy of humans from an evolutionary perspective. Anatomy of the structures of the back, limbs, head, and neck are examined. Cadaver-based dissection labs accompany lecture topics

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5373F. Advanced Methods in Skeletal Biology, Part II.**

This course focuses on technical case report writing and evidentiary best practices in forensic anthropological analysis of human skeletal remains. In addition to biological profile estimation techniques, research methods and theoretical foundations used for trauma analysis and taphonomic interpretation will be reviewed. Prerequisite: ANTH 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5373G. Research Design and Proposal Writing in Cultural Anthropology.**

This course will familiarize students with the basic principles and practices of effective research design and proposal writing in cultural anthropology. Students will acquire a practical experience in formulating a feasible and creative research project, performing a rigorous literature review, planning to protect human research subjects, and giving/receiving constructive peer reviews

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5374A. Archaeology of the Earliest Americans.**

This course focuses on the long-standing and controversial issues of when, how, and who first peopled the Americas. This is a significant aspect of human prehistory and remains unresolved. Students will use archaeological, biological, linguistic, and environmental evidence to help identify the first inhabitants of the New World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374F. Mixtec Codices: Prehispanic Literatures of Oaxaca.**

In this course students will learn about the cultures of the Zapotec and Mixtec Indians of prehispanic Oaxaca by examining and deciphering the Mixtec pictogram fan-fold books called codices. (Stacked course with ANTH3376A.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374Y. Human Evolutionary Anatomy.**

This course is designed to give students an anatomical background to the study of human evolution with a focus on the comparative anatomy of apes, living humans, and fossil hominins

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374Z. Curation of Archaeological Materials.**

This course will examine the phenomenon or fundamentalism in a variety of religious traditions, both present and historical. Students will explore the political and social ramifications of fundamentalism in a world characterized by multiculturalism and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5375. Advanced Methods in Skeletal Biology, Part I.**

This course focuses on laboratory analytical techniques and data collection methods used to estimate the biological profile of modern, historic, or prehistoric human skeletal remains

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ANTH 5375Z. Curation of Archaeological Materials.**

This course provides students with the skills to prepare archaeological materials for curation, which includes the processes and techniques used to stabilize and preserve organic and inorganic materials. This training can be used to gain certification in the field of archaeological curation. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**ANTH 5380. Seminar in Anthropological Research.**

A course focused on a topic not normally offered in the regular curriculum. Course may be in any area of anthropological inquiry. May be repeated for credit when topics vary, but not more than 6 hours will apply towards the Master's degree

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5381. Paleopathology.**

Paleopathology is the study of ancient diseases and is an important tool for understanding of past populations. In this course we will survey the range of pathology on human skeletons such as trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis, and tumors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**ANTH 5390. Directed Study.**

Course of independent study open to individual students at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5395. Internship.**

A supervised work or research experience related to a student's professional development. Requirements include completing 250 hours of work with a public or private organization, weekly class meetings, and a semester-long project. The written approval of a student's faculty mentor and graduate student advisor are required to register. Repeatable for credit with permission of the Internship Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5395V. Andean Civilization.**

Special topics in Anthropology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**ANTH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed their thesis proposal. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Anthropology

The graduate minor in anthropology consists of nine hours of 5000-level ANTH course work. Courses are to be chosen in consultation with the anthropology graduate advisor.

## Center for Diversity and Gender Studies

Undergraduate Academic Center Room 478

T: 512.245.2361 F: 512.245.1414

<http://www.mcgs.txstate.edu/>

The Center for Diversity and Gender Studies (CDGS) is a part of the College of Liberal Arts, one of the seven colleges at Texas State. CDGS was established at the beginning of the 1984 academic year. It assists students in preparing for a pluralistic society by providing faculty and students with resources that encourage the infusion of an interdisciplinary curriculum that addresses race, class, gender, sexual orientation, and ethnicity.

## Minors

- Diversity Studies (p. 958)
- Women and Gender Studies (p. 959)

## Minor in Diversity Studies

### Minor Requirements

DVST 5310	Diversity Studies: Theories & Issues	3
DVST 5320	Global Issues in Diversity	3
Prescribed Elective (Choose one class)		3
ANTH 5314	Latin American Cultures	
ANTH 5322	Peoples and Cultures of Sub-Saharan Africa	
ANTH 5324	Mexican American Culture	
ANTH 5350	Gender and Sexuality in Cross Cultural Perspective	
ANTH 5354	Latin American Gender and Sexuality	
CI 5310	Creativity: Theories, Research, and Applications	
CI 5330	Multicultural Teaching and Learning	



CI 5388	The Politics of Language
CJ 5380I	Race, Class, and Crime
COMM 5325	Seminar in Human Communication Theory
COMM 5356	Gender and Communication
ENG 5300	Language Problems in a Multicultural Environment
ENG 5317	Specializations in Rhetoric and Composition
ENG 5383	Studies in Rhetorical Theory
ENG 5395	Problems in Language and Literature
HIST 5314	Ethnohistory
HIST 5323A	Society and Culture in Brazil
HIST 5324B	Class and Society in Latin America
HIST 5324C	Slavery and Emancipation in the Americas
HIST 5325A	History of Mexico to 1848
HIST 5345N	Transformation of the South
HIST 5369	Music and Social Movements
HIST 5345O	Immigration and Ethnicity in American History
HIST 5345Q	Women and Citizenship
HIST 5346	African American History
HIST 5351C	Race, Gender, and Ethnicity in American Labor History
HIST 5366A	Women in Antebellum America
HIST 5382	China and the Modern World
HIST 5395E	Mahatma Gandhi in World History
MC 5301	Mass Media and Society
MC 5309	Gender, Race, and Class and the Media
MC 5310	International Communication Issues
MC 5321	Latinos and Media
MC 5322	International Advertising and Public Relations Issues
RDG 5350	Literacy as Sociocultural Practice
SOCI 5350	Seminar on the Sociology of Gender
SOCI 5370	Seminar in Multi-Cultural Relations
SOCI 5388B	Social Inequality: Race, Class, and Gender in the United States
SOCI 5390	Seminar in Globalization and Development
WS 5376	Images of Women
WS 5377	Realities of Women

Total Hours 9

## Minor in Women & Gender Studies

The Graduate College and the Center for Diversity and Gender Studies offers a minor in women and gender studies (WGS). WGS offers an interdisciplinary, 9- to 15-hour program that concentrates on the images and realities of women. Drawing on recent scholarship about women and gender, this minor provides a flexible, coherent program that enables students to complement any major with the study of the significance of gender. The women and gender studies minor helps students create opportunities for themselves in a rapidly changing society.

### Core Courses

WS 5376	Images of Women	3
WS 5377	Realities of Women	3

### Electives

Select 3 to 9 hours from the following: 3-9

ANTH 5324	Mexican American Culture
ANTH 5350	Gender and Sexuality in Cross Cultural Perspective
ANTH 5354	Latin American Gender and Sexuality
COMM 5325	Seminar in Human Communication Theory
COMM 5342	Historical Rhetoric and Social Influence
COMM 5356	Gender and Communication
DVST 5310	Diversity Studies: Theories & Issues
ENG 5321	Contemporary Fiction <sup>1</sup>
ENG 5331	Studies in American Poetry <sup>1</sup>
ENG 5332	Studies in American Prose <sup>1</sup>
ENG 5364	Studies in the Romantic Movement <sup>1</sup>
ENG 5366	Studies in Victorian Poetry <sup>1</sup>
ENG 5368	Studies in Victorian Prose <sup>1</sup>
ENG 5388	Studies in Literature for Children or Adolescents <sup>1</sup>
ENG 5395	Problems in Language and Literature <sup>1</sup>
HIST 5351C	Race, Gender, and Ethnicity in American Labor History
HIST 5366A	Women in Antebellum America
MC 5309	Gender, Race, and Class and the Media
PHIL 5301	Applied Philosophy <sup>1</sup>
PHIL 5325	Philosophy of Sex and Love
PHIL 5388	Problems in Philosophy <sup>1</sup>
SOCI 5337	Seminar in the Family <sup>1</sup>
SOCI 5350	Seminar on the Sociology of Gender
SPAN 5390	Studies in Spanish Culture, Language, or Literature (Independent Study)
WS 5388	Independent Research in Women and Gender Studies

Total Hours 9-15

<sup>1</sup> Denotes topics course. Topics courses are offered on a selective basis, may count toward the minor with permission from the director of the Center for Diversity and Gender Studies and the dean of The Graduate College.

For more information, contact Dr. Sandra Mayo, director of the Center for Diversity and Gender Studies, at 512.245.2361 or e-mail at MCGS@txstate.edu.

Master's level courses offered in Diversity and Gender Studies: WS (p. 959), DVST (p. 960)

## Courses Offered

### Women's Studies (WS)

#### WS 5376. Images of Women.

This course, one of two multidisciplinary team-taught women's studies courses, is a survey of the changing images of women in the U.S. since 1800 through the eyes of historians, writers, artists, orators, the media, and educators

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**WS 5377. Realities of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is a study of the realities faced by women in the U.S. today—including biological and psychological differences in males and females, politics and law, the work force, and the home. Gender roles in societies outside the U.S. will also be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**WS 5388. Independent Research in Women and Gender Studies.**

Independent research course open to students on an individual or small group basis. The research area in Women and Gender Studies, bibliography, and study paper outline are to be approved by the instructor. Prerequisite: Approval of the Director of Multicultural and Gender Studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Diversity Studies (DVST)****DVST 5310. Diversity Studies: Theories & Issues.**

Focusing on the four major ethnic groups (Native Americans, African Americans, Mexican Americans, and Asian Americans), this interdisciplinary course introduces critical theories and issues relating to race, class, ethnicity, culture, and other areas of diversity in the United States. The literature component of the course will supplement the theoretical texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DVST 5320. Global Issues in Diversity.**

Course provides framework for analyzing diversity globally. Examines how globalization acts to shape and re-shape ethnic identity and ethnic antagonism. Course investigates how the shaping and re-shaping of ethnic identity influences immigration policy, reproductive rights, LGBTQ rights, and healthcare delivery

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Department of English**

Flowers Hall Room 365

T: 512.245.2163 F: 512.245.8546

<http://www.english.txstate.edu/>

The discipline of English covers much ground, and graduate programs may focus on one or more subdisciplines. Texas State's graduate English program serves students with many interests and needs by offering dozens of courses each semester on a wide variety of topics. Students may focus on a single element of English studies or they may combine elements. Many courses apply the most important current critical and theoretical approaches to the study of literature and the media, while others help promising poets and fiction writers to master those crafts. Some teach rhetorical skills to future expository writers and teachers of writing, while others cover the numerous kinds of writing demanded by rapidly changing technologies. Our integrative approach allows both for expansion of areas of study beyond a single emphasis and for the specialization that appropriately occurs at a university. Please go to the Programs tab for more specific information on our majors.

**Financial Assistance**

Graduate students in the M.A. programs may apply for appointments of up to two years as instructional or teaching assistants; students in

the M.F.A. program may apply for appointments of up to three years. Instructional assistants have completed fewer than 18 graduate hours in English and have limited duties; teaching assistants have completed 18 or more hours in English and have a wider range of teaching duties. Assistants ordinarily have assignments in composition courses or surveys of literature. Applications are available from graduate program directors.

Graduate students may apply for a number of departmental scholarships, including the G. Jack Gravitt Scholarship, the William F. McKeen III Scholarship, the Peterson-Charles Mosley Scholarship, the W. Morgan and Lou Claire Rose Scholarship, and the Leonard and Elizabeth Wright Scholarship for Future Teachers. Contact a graduate program director for applications or additional information.

The Graduate College oversees additional scholarships and may be contacted at 512.245.2581 for further scholarship information.

**The Therese Kayser Lindsey Endowment for Literature**

The Lindsey Endowment, dedicated April 11, 1978, is a gift of Mrs. Louise Lindsey Merrick to the Texas State University Foundation, made in memory of her mother, Therese Kayser Lindsey. A noted poet and patron of the arts, Mrs. Lindsey attended Southwest Texas State Normal School, completing her degree in 1905. She published four volumes of poetry and helped organize the Poetry Society of Texas.

The endowment, along with the Katherine Anne Porter Literary Center, supports the mission of the department by sponsoring readings by distinguished writers and scholars such as Margaret Atwood, Sandra Cisneros, Junot Diaz, Rita Dove, Stanley Fish, Allen Ginsberg, Jorie Graham, Maxine Hong Kingston, Denise Levertov, Larry McMurtry, W.S. Merwin, N. Scott Momaday, Jayne Anne Phillips, Annie Proulx, Helen Vendler, Alice Walker, and Charles Wright.

Visiting writers and scholars often meet with graduate classes, attend question-and-answer sessions, and hold informal discussions with graduate students.

**The University Endowed Chair in Creative Writing**

The University Endowed Chair in Creative Writing brings distinguished writers annually to teach graduate writing workshops and to give public readings. Former chair holders include MacArthur Foundation Fellow Leslie Marmon Silko, National Book Award winning poet Ai, Pulitzer Prize finalist Barry Hannah, National Book Award winner Denis Johnson, American Book Award winner Li-Young Lee, National Book Award winner Robert Stone, and National Book Award winner Tim O'Brien, who is also a member of the M.F.A. program's permanent faculty.

From Fall 2014 through Spring 2016, the chair holder will be National Book Critics Circle Award winner, Ben Fountain.

**The Katherine Anne Porter Literary Center**

Established in 2000, the Katherine Anne Porter Literary Center is based in the childhood home of the Pulitzer Prize and National Book Award-winning author. The Center is host to numerous visiting writers each year. The house was dedicated as a National Literary Landmark in June 2002, by the Friends of Libraries USA and the Library of Congress.

## Master of Arts (M.A.)

- Major in Literature (p. 966)
- Major in Technical Communication (p. 976)
- Major in Rhetoric and Composition (p. 971)

## Master of Fine Arts (M.F.A.)

- Major in Creative Writing (p. 961)

## Minor

- Literature (p. 982)

## Master of Fine Arts (M.F.A.), Major in Creative Writing

### Major Program

The M.F.A. program offers talented writers the opportunity to develop skills as fiction writers or poets in a formal academic program. **Writers interested in the M.F.A. degree should contact the M.F.A. office at [mfinearts@txstate.edu](mailto:mfinearts@txstate.edu) for specific admission requirements.**

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cw.html>.

## Degree Requirements

### Course Work Requirements

#### Fiction Option

##### Writing Courses

ENG 5315	Graduate Writing Workshop (Repeated for a total of 12 hours)	12
ENG 5395	Problems in Language and Literature	3

##### Fiction Courses

ENG 5320	Form and Theory of Fiction	3
Fiction Electives (Choose 15 hours)		15
ENG 5302	Media Studies	
ENG 5312	Editing the Professional Publication	
ENG 5316	Foundations in Rhetoric and Composition	
ENG 5321	Contemporary Fiction	
ENG 5323	Studies in Autobiography and Biography	
ENG 5324	Studies in Literary Genre	
ENG 5325	Studies in Literature of the Southwest	
ENG 5331	Studies in American Poetry	
ENG 5332	Studies in American Prose	
ENG 5353	Studies in Medieval Literature	
ENG 5354	Studies in Renaissance Literature	
ENG 5359	Studies in Restoration and Eighteenth-century Literature	
ENG 5364	Studies in the Romantic Movement	
ENG 5366	Studies in Victorian Poetry	
ENG 5368	Studies in Victorian Prose	
ENG 5381	Studies in Modern British and American Drama	
ENG 5384	Critical Theory	

#### Minor Course Work

Choose an approved 9-hour minor 9

#### Thesis Course Work

Choose a minimum 6 hours 6

ENG 5199B	Thesis	
ENG 5299B	Thesis	
ENG 5399A	Thesis	
ENG 5399B	Thesis	
ENG 5599B	Thesis	
ENG 5999B	Thesis	

Total Hours 48

#### Poetry Option

##### Writing Courses

ENG 5315	Graduate Writing Workshop (Repeated for a total of 12 hours)	12
ENG 5395	Problems in Language and Literature	3

##### Poetry Courses

ENG 5322	Form and Theory of Poetry	3
Poetry Electives (Choose 15 hours)		15

ENG 5302	Media Studies	
ENG 5312	Editing the Professional Publication	
ENG 5316	Foundations in Rhetoric and Composition	
ENG 5321	Contemporary Fiction	
ENG 5323	Studies in Autobiography and Biography	
ENG 5324	Studies in Literary Genre	
ENG 5325	Studies in Literature of the Southwest	
ENG 5331	Studies in American Poetry	
ENG 5332	Studies in American Prose	
ENG 5353	Studies in Medieval Literature	
ENG 5354	Studies in Renaissance Literature	
ENG 5359	Studies in Restoration and Eighteenth-century Literature	
ENG 5364	Studies in the Romantic Movement	
ENG 5366	Studies in Victorian Poetry	
ENG 5368	Studies in Victorian Prose	
ENG 5381	Studies in Modern British and American Drama	
ENG 5384	Critical Theory	

#### Minor Course Work

Choose an approved 9-hour minor 9

#### Thesis Course Work

Choose a minimum 6 hours 6

ENG 5199B	Thesis	
ENG 5299B	Thesis	
ENG 5399A	Thesis	
ENG 5399B	Thesis	
ENG 5599B	Thesis	
ENG 5999B	Thesis	

Total Hours 48

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity

with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in English: ENG

## Courses Offered English (ENG)

Graduate courses listed as "repeatable" ordinarily count toward nine hours of English degree credit unless otherwise indicated. Exceptions require written justification and departmental approval. Specific emphases of repeatable courses vary by term and instructor, but they may focus on literary and rhetorical forms and genres; authors, periods, or literary movements; perspectives from social, intellectual, and cultural studies; literary themes; or theoretical and practical information for technical communication. The department provides descriptions of specific courses prior to each term's enrollment period.

### ENG 5199B. Thesis.

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**ENG 5299B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5301. Literary Scholarship.**

An introduction to scholarly resources, methods, theories, and responsibilities that guide the study and interpretations of literature in English. Literary texts chosen for detailed examination vary with expertise of the instructor. Required in first year of M.A. with a Literature Major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5302. Media Studies.**

The study of film and media history, theory, and practice. Special topics may include videography, video editing, genre, filmmakers, and regional film

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5310. Studies in English Language and Linguistics.**

A study of the English language, with special attention to phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5311. Foundations in Technical Communication.**

An introduction to the theory and practice of technical communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5312. Editing the Professional Publication.**

The editing, design, layout, and proofreading of a professional publication. This course is an internship. Graded on a credit (CR), no credit (F) basis. May be repeated one time with different emphasis

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5313. Studies in Principles of Technical Communication.**

A group of courses that provide students theoretical and practical information useful in any position in technical communication. Recent emphases include Digital Media and the web, Technical Editing, and Visual Rhetoric. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5314. Specializations in Technical Communication.**

A group of courses that provide students theoretical and practical information for specialized types of technical communication. Recent emphases include International Technical Communication Proposal Writing, Software Documentation and Writing for the Government.

Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5315. Graduate Writing Workshop.**

A studio course in which the primary texts are student manuscripts. Concentrations in fiction or poetry examine principles and techniques of creating, evaluating, and revising writing in these genres. The course requires class members to review writing produced by other workshop members. 12 hours of M.F.A. credit required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5316. Foundations in Rhetoric and Composition.**

A group of courses providing students with theoretical, pedagogical, and methodological foundations in the field of rhetoric and composition.

Emphases vary but include Contemporary Composition Theory and Composition Pedagogy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5317. Specializations in Rhetoric and Composition.**

A group of courses providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Center Theory, Practice, and Administration; Writing Across the Curriculum; Service Learning; and Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5318. Effective Communication (Writing).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on writing. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5319. Effective Communication (Reading).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on reading. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5320. Form and Theory of Fiction.**

An examination of traditional and current theory and practice in fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures. For M.F.A. credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ENG 5321. Contemporary Fiction.**

Readings selected from canonical and/or experimental fiction. Recent emphases include novels into film, postmodern fiction, Magical Realism, and Saul Bellow. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5322. Form and Theory of Poetry.**

An examination of traditional and current theory and practice in poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures. For MFA credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5323. Studies in Autobiography and Biography.**

A study of selected works in autobiography and biography with special attention to the art forms used in these works. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5324. Studies in Literary Genre.**

A study of one or more literary genres over several historical periods or from a variety of cultural perspectives. The course focuses on genres such as the following: the epic, the novel, the short story, the lyric, the pastoral, the romance, and Irish comic fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5325. Studies in Literature of the Southwest.**

Selected Texas and Southwestern writers with emphasis on fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5327. Research Methods in Rhetoric, Composition, and Technical Communication.**

An introduction to research practices in rhetoric, composition, and technical communications, focusing on the paradigms/perspectives, strategies, and methods that characterize qualitative and quantitative research in these areas. Includes discussion of the history and role of research in the field, research ethics, and issues of representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5328. Directed Portfolio.**

Constitutes partial fulfillment of non-thesis option for students earning the MA in Rhetoric and Composition. Under guidance of a graduate faculty committee, students produce a portfolio of representative written work with written commentary and reflection. Departmental approval required. Graded as credit (CR), progress (PR), no-credit (F). Repeatable once

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5331. Studies in American Poetry.**

Selected poets with a survey of their works. Recent emphases include Walt Whitman, Emily Dickinson, Southern poetry, Denise Levertov, and Robert Bly. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5332. Studies in American Prose.**

Selected authors with special attention to novels. Recent emphases include William Faulkner, Ernest Hemingway, Richard Wright, and Zora Neale Hurston. Repeatable with different emphases for up to nine hours of English credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5345. Southwestern Studies I: Defining the Region.**

An interdisciplinary course that surveys the physical, cultural, and social history of the Southwest, emphasizing architecture, art, literature, philosophy, politics, popular culture, and technology. Historical focus from the 15th to the mid-19th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5346. Southwestern Studies II: Consequences of Region.**

Second course in a survey of physical, cultural, and social history of the Southwest, emphasizing regional and ethnic expressions of culture. This course moves from the broad overview of the first semester to more specific problems in the region and to the artistic products of regional culture. Historical focus is from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5353. Studies in Medieval Literature.**

Emphasis on authors, contexts, and genres of the medieval period. Recent emphases include Anglo-Saxon culture, language, and literature; Chaucer; non-Chaucerian medieval literature; pilgrimage literature. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5354. Studies in Renaissance Literature.**

Emphasis on authors, contexts, and genres of the Renaissance. Recent emphases include Shakespeare, Renaissance epic, Tudor humanism, and John Milton. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5359. Studies in Restoration and Eighteenth-century Literature.**

Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Johnson and his circle, Restoration and eighteenth-century drama, and the eighteenth-century novel. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5364. Studies in the Romantic Movement.**

The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship. Recent emphases include Blake and the other arts, Coleridge, the Wordsworths, Shelley, and Keats. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5366. Studies in Victorian Poetry.**

Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Tennyson, the Brownings, the Pre-Raphaelites, and Hopkins. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5368. Studies in Victorian Prose.**

Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include George Eliot, non-fiction Victorian prose, Victorian women novelists, and Charles Dickens. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5371. Studies in Modern British Literature.**

Selected authors with a survey of their works. Recent emphases include Yeats, Wilde, Auden, and Post-World War II British poetry. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5372. Practicum in English Studies.**

An introduction to key issues and concepts in the teaching of English studies. Required for first-year instructional assistants in the English Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5381. Studies in Modern British and American Drama.**

A survey of major British and American dramatists and their European or world context. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5382. Practicum in Composition.**

An introduction to key issues and concepts in the teaching of expository writing at the college level. Required for first-year teaching assistants in the English Department who have not previously taken ENG 5372. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5384. Critical Theory.**

A study of critical theory, emphasizing the history of criticism and/or contemporary critical theories. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5388. Studies in Literature for Children or Adolescents.**

A study of contemporary works, extending the student's knowledge of the literature and criticism in the field. Typical emphases are generic and/or thematic and include picture books, the contemporary novel, and the children's classics on film. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5389. History of Children's Literature.**

The history of children's literature from the Middle Ages through 1940. May be repeated with different emphases for up to six hours of graduate credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5390. Special Problems.**

Independent study under supervision of a graduate faculty member in English, with in-depth readings and research focused on a special problem in literature and/or language. May be taken only with permission from the assigned professor, the graduate director, and the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5391. Directed Studies in English.**

Students will conduct studies as necessary preparation for graduate-level coursework in English. The nature of the work varies depending on the student's level of academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ENG 5395. Problems in Language and Literature.**

Recent emphases include literary technique and literary theory. Repeatable with different emphases for up to nine hours of English credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ENG 5399A. Thesis.**

First semester of thesis enrollment. No thesis credit awarded until student has completed the thesis in English 5399B. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5399B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5599B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5999B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Masters of Arts (M.A.), Major in Literature

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/lit.html>.

### Degree Requirements

The master of arts (M.A.) degree with a literature major comprises two tracks:

#### Thesis Track

Graduate English courses	18
Thesis	6
Approved graduate minor or area of emphasis (an individually tailored cognate made up of at least two graduate courses related by genre, period, or subject)	6
<b>Total Hours</b>	<b>30</b>

#### Non-thesis Track

Graduate English courses	27
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Approved graduate minor or area of emphasis (an individually tailored cognate made up of at least two graduate courses related by genre, period, or subject)	9
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<b>Total Hours</b>	<b>36</b>
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Students choose among minors offered by many graduate programs or areas of emphasis in many areas, including traditional periods and genres, children's literature, rhetorical or literary theory, technical communication, ethnic studies, gender studies, and studies of the American Southwest.

## Course Work Requirements

### Non-thesis Option

ENG 5301	Literary Scholarship	3
ENG 5353	Studies in Medieval Literature	3
ENG 5354	Studies in Renaissance Literature	3
British Literature after 1600 Electives (Choose 1)		3
ENG 5321	Contemporary Fiction	
ENG 5359	Studies in Restoration and Eighteenth-century Literature	
ENG 5364	Studies in the Romantic Movement	
ENG 5366	Studies in Victorian Poetry	
ENG 5368	Studies in Victorian Prose	
American Literature Electives (Choose 1)		3
ENG 5321	Contemporary Fiction	
ENG 5325	Studies in Literature of the Southwest	
ENG 5331	Studies in American Poetry	
ENG 5332	Studies in American Prose	
ENG 5345	Southwestern Studies I: Defining the Region	
ENG 5346	Southwestern Studies II: Consequences of Region	
Graduate Advisor-Approved Electives in English Literature after 1660		3
Graduate Advisor Approved Electives in English		9
Minor Course Work (Choose an approved 9-hour minor)		9
<b>Total Hours</b>		<b>36</b>

### Thesis Option

ENG 5301	Literary Scholarship	3
ENG 5353	Studies in Medieval Literature	3
ENG 5354	Studies in Renaissance Literature	3
British Literature after 1600 Electives (Choose 1)		3
ENG 5321	Contemporary Fiction	
ENG 5359	Studies in Restoration and Eighteenth-century Literature	
ENG 5364	Studies in the Romantic Movement	
ENG 5366	Studies in Victorian Poetry	
ENG 5368	Studies in Victorian Prose	
American Literature Electives (Choose 1)		3
ENG 5321	Contemporary Fiction	
ENG 5325	Studies in Literature of the Southwest	
ENG 5331	Studies in American Poetry	
ENG 5332	Studies in American Prose	
ENG 5345	Southwestern Studies I: Defining the Region	
ENG 5346	Southwestern Studies II: Consequences of Region	
Graduate Advisor-Approved Electives in English Literature after 1660		3

Minor Course Work (Choose an approved 6-hour minor)	6
Thesis Course Work (Choose a minimum 6 hours)	6
ENG 5199B Thesis	
ENG 5299B Thesis	
ENG 5399A Thesis	
ENG 5399B Thesis	
ENG 5599B Thesis	
ENG 5999B Thesis	
<b>Total Hours</b>	<b>30</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and

plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in English: ENG

## Courses Offered English (ENG)

Graduate courses listed as "repeatable" ordinarily count toward nine hours of English degree credit unless otherwise indicated. Exceptions require written justification and departmental approval. Specific emphases of repeatable courses vary by term and instructor, but they may focus on literary and rhetorical forms and genres; authors, periods,



or literary movements; perspectives from social, intellectual, and cultural studies; literary themes; or theoretical and practical information for technical communication. The department provides descriptions of specific courses prior to each term's enrollment period.

**ENG 5199B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5299B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5301. Literary Scholarship.**

An introduction to scholarly resources, methods, theories, and responsibilities that guide the study and interpretations of literature in English. Literary texts chosen for detailed examination vary with expertise of the instructor. Required in first year of M.A. with a Literature Major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5302. Media Studies.**

The study of film and media history, theory, and practice. Special topics may include videography, video editing, genre, filmmakers, and regional film

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5310. Studies in English Language and Linguistics.**

A study of the English language, with special attention to phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5311. Foundations in Technical Communication.**

An introduction to the theory and practice of technical communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5312. Editing the Professional Publication.**

The editing, design, layout, and proofreading of a professional publication. This course is an internship. Graded on a credit (CR), no credit (F) basis. May be repeated one time with different emphasis

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5313. Studies in Principles of Technical Communication.**

A group of courses that provide students theoretical and practical information useful in any position in technical communication. Recent emphases include Digital Media and the web, Technical Editing, and Visual Rhetoric. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5314. Specializations in Technical Communication.**

A group of courses that provide students theoretical and practical information for specialized types of technical communication. Recent emphases include International Technical Communication Proposal Writing, Software Documentation and Writing for the Government. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5315. Graduate Writing Workshop.**

A studio course in which the primary texts are student manuscripts. Concentrations in fiction or poetry examine principles and techniques of creating, evaluating, and revising writing in these genres. The course requires class members to review writing produced by other workshop members. 12 hours of M.F.A. credit required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5316. Foundations in Rhetoric and Composition.**

A group of courses providing students with theoretical, pedagogical, and methodological foundations in the field of rhetoric and composition. Emphases vary but include Contemporary Composition Theory and Composition Pedagogy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5317. Specializations in Rhetoric and Composition.**

A group of courses providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Center Theory, Practice, and Administration; Writing Across the Curriculum; Service Learning; and Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5318. Effective Communication (Writing).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on writing. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5319. Effective Communication (Reading).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on reading. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ENG 5320. Form and Theory of Fiction.**

An examination of traditional and current theory and practice in fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures. For M.F.A. credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5321. Contemporary Fiction.**

Readings selected from canonical and/or experimental fiction. Recent emphases include novels into film, postmodern fiction, Magical Realism, and Saul Bellow. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5322. Form and Theory of Poetry.**

An examination of traditional and current theory and practice in poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures. For MFA credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5323. Studies in Autobiography and Biography.**

A study of selected works in autobiography and biography with special attention to the art forms used in these works. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5324. Studies in Literary Genre.**

A study of one or more literary genres over several historical periods or from a variety of cultural perspectives. The course focuses on genres such as the following: the epic, the novel, the short story, the lyric, the pastoral, the romance, and Irish comic fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5325. Studies in Literature of the Southwest.**

Selected Texas and Southwestern writers with emphasis on fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5327. Research Methods in Rhetoric, Composition, and Technical Communication.**

An introduction to research practices in rhetoric, composition, and technical communications, focusing on the paradigms/perspectives, strategies, and methods that characterize qualitative and quantitative research in these areas. Includes discussion of the history and role of research in the field, research ethics, and issues of representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5328. Directed Portfolio.**

Constitutes partial fulfillment of non-thesis option for students earning the MA in Rhetoric and Composition. Under guidance of a graduate faculty committee, students produce a portfolio of representative written work with written commentary and reflection. Departmental approval required. Graded as credit (CR), progress (PR), no-credit (F). Repeatable once

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5331. Studies in American Poetry.**

Selected poets with a survey of their works. Recent emphases include Walt Whitman, Emily Dickinson, Southern poetry, Denise Levertov, and Robert Bly. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5332. Studies in American Prose.**

Selected authors with special attention to novels. Recent emphases include William Faulkner, Ernest Hemingway, Richard Wright, and Zora Neale Hurston. Repeatable with different emphases for up to nine hours of English credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5345. Southwestern Studies I: Defining the Region.**

An interdisciplinary course that surveys the physical, cultural, and social history of the Southwest, emphasizing architecture, art, literature, philosophy, politics, popular culture, and technology. Historical focus from the 15th to the mid-19th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5346. Southwestern Studies II: Consequences of Region.**

Second course in a survey of physical, cultural, and social history of the Southwest, emphasizing regional and ethnic expressions of culture. This course moves from the broad overview of the first semester to more specific problems in the region and to the artistic products of regional culture. Historical focus is from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5353. Studies in Medieval Literature.**

Emphasis on authors, contexts, and genres of the medieval period. Recent emphases include Anglo-Saxon culture, language, and literature; Chaucer; non-Chaucerian medieval literature; pilgrimage literature. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5354. Studies in Renaissance Literature.**

Emphasis on authors, contexts, and genres of the Renaissance. Recent emphases include Shakespeare, Renaissance epic, Tudor humanism, and John Milton. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5359. Studies in Restoration and Eighteenth-century Literature.**

Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Johnson and his circle, Restoration and eighteenth-century drama, and the eighteenth-century novel. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5364. Studies in the Romantic Movement.**

The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship. Recent emphases include Blake and the other arts, Coleridge, the Wordsworths, Shelley, and Keats. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5366. Studies in Victorian Poetry.**

Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Tennyson, the Brownings, the Pre-Raphaelites, and Hopkins. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5368. Studies in Victorian Prose.**

Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include George Eliot, non-fiction Victorian prose, Victorian women novelists, and Charles Dickens. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5371. Studies in Modern British Literature.**

Selected authors with a survey of their works. Recent emphases include Yeats, Wilde, Auden, and Post-World War II British poetry. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5372. Practicum in English Studies.**

An introduction to key issues and concepts in the teaching of English studies. Required for first-year instructional assistants in the English Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5381. Studies in Modern British and American Drama.**

A survey of major British and American dramatists and their European or world context. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5382. Practicum in Composition.**

An introduction to key issues and concepts in the teaching of expository writing at the college level. Required for first-year teaching assistants in the English Department who have not previously taken ENG 5372. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5384. Critical Theory.**

A study of critical theory, emphasizing the history of criticism and/or contemporary critical theories. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5388. Studies in Literature for Children or Adolescents.**

A study of contemporary works, extending the student's knowledge of the literature and criticism in the field. Typical emphases are generic and/or thematic and include picture books, the contemporary novel, and the children's classics on film. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5389. History of Children's Literature.**

The history of children's literature from the Middle Ages through 1940. May be repeated with different emphases for up to six hours of graduate credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5390. Special Problems.**

Independent study under supervision of a graduate faculty member in English, with in-depth readings and research focused on a special problem in literature and/or language. May be taken only with permission from the assigned professor, the graduate director, and the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5391. Directed Studies in English.**

Students will conduct studies as necessary preparation for graduate-level coursework in English. The nature of the work varies depending on the student's level of academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ENG 5395. Problems in Language and Literature.**

Recent emphases include literary technique and literary theory. Repeatable with different emphases for up to nine hours of English credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ENG 5399A. Thesis.**

First semester of thesis enrollment. No thesis credit awarded until student has completed the thesis in English 5399B. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5399B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5599B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5999B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Masters of Arts (M.A.), Major in Rhetoric and Composition

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/rhco.html>.

### Degree Requirements

The master of arts (M.A.) degree with a major in rhetoric and composition requires 33 semester hours and includes both **thesis** and **portfolio** options.

### Course Work Requirements

#### Thesis Option

##### Core Course Work

ENG 5326	Contemporary Composition Theory	3
ENG 5316	Foundations in Rhetoric and Composition	3
ENG 5327	Research Methods in Rhetoric, Composition, and Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3

##### Prescribed Elective Course Work

Select 9 hours of the following: 9

ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5313	Studies in Principles of Technical Communication (Computers and Writing) <sup>1</sup>	
ENG 5316	Foundations in Rhetoric and Composition <sup>2,3</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>2</sup>	
ENG 5383	Studies in Rhetorical Theory <sup>2,4</sup>	

##### Cognate Minor Course Work

Select 6 hours of courses in rhetoric and composition or a related field designed to complement required and prescribed courses in the major 6

##### Thesis Course Work

Choose a minimum 6 hours		6
ENG 5199B	Thesis	
ENG 5299B	Thesis	
ENG 5399A	Thesis	
ENG 5399B	Thesis	
ENG 5599B	Thesis	
ENG 5999B	Thesis	

Total Hours 33

<sup>1</sup> With program advisor's approval, students may take additional hours under ENG 5313 and ENG 5314 if course topics are deemed directly relevant to rhetoric and composition.

<sup>2</sup> Topics vary

<sup>3</sup> Excludes Topic: Composition Pedagogy

<sup>4</sup> Excludes Topic: History of Rhetoric

### Portfolio Option

#### Core Course Work

ENG 5326	Contemporary Composition Theory	3
ENG 5316	Foundations in Rhetoric and Composition	3
ENG 5327	Research Methods in Rhetoric, Composition, and Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3

#### Prescribed Elective Course Work

Select 12 hours from the following: 12

ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5313	Studies in Principles of Technical Communication (Computers and Writing) <sup>1</sup>	
ENG 5316	Foundations in Rhetoric and Composition <sup>2,3</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>2</sup>	
ENG 5383	Studies in Rhetorical Theory <sup>2,4</sup>	

#### Portfolio Course Work

ENG 5328	Directed Portfolio	3
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#### Cognate Course Work

Select 6 hours of courses in rhetoric and composition or a related field designed to complement required and prescribed courses in the major 6

Total Hours 33

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<sup>3</sup> Excludes Topic: Composition Pedagogy.

<sup>4</sup> Excludes Topic: History of Rhetoric.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

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The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor

may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

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## Thesis Deadlines and Approval Process

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The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in English: ENG

## Courses Offered English (ENG)

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technical communication. The department provides descriptions of specific courses prior to each term's enrollment period.

**ENG 5199B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5299B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5301. Literary Scholarship.**

An introduction to scholarly resources, methods, theories, and responsibilities that guide the study and interpretations of literature in English. Literary texts chosen for detailed examination vary with expertise of the instructor. Required in first year of M.A. with a Literature Major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5302. Media Studies.**

The study of film and media history, theory, and practice. Special topics may include videography, video editing, genre, filmmakers, and regional film

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5310. Studies in English Language and Linguistics.**

A study of the English language, with special attention to phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5311. Foundations in Technical Communication.**

An introduction to the theory and practice of technical communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5312. Editing the Professional Publication.**

The editing, design, layout, and proofreading of a professional publication. This course is an internship. Graded on a credit (CR), no credit (F) basis. May be repeated one time with different emphasis

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5313. Studies in Principles of Technical Communication.**

A group of courses that provide students theoretical and practical information useful in any position in technical communication. Recent emphases include Digital Media and the web, Technical Editing, and Visual Rhetoric. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5314. Specializations in Technical Communication.**

A group of courses that provide students theoretical and practical information for specialized types of technical communication. Recent emphases include International Technical Communication Proposal Writing, Software Documentation and Writing for the Government. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5315. Graduate Writing Workshop.**

A studio course in which the primary texts are student manuscripts. Concentrations in fiction or poetry examine principles and techniques of creating, evaluating, and revising writing in these genres. The course requires class members to review writing produced by other workshop members. 12 hours of M.F.A. credit required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5316. Foundations in Rhetoric and Composition.**

A group of courses providing students with theoretical, pedagogical, and methodological foundations in the field of rhetoric and composition.

Emphases vary but include Contemporary Composition Theory and Composition Pedagogy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5317. Specializations in Rhetoric and Composition.**

A group of courses providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Center Theory, Practice, and Administration; Writing Across the Curriculum; Service Learning; and Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5318. Effective Communication (Writing).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on writing. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5319. Effective Communication (Reading).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on reading. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ENG 5320. Form and Theory of Fiction.**

An examination of traditional and current theory and practice in fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures. For M.F.A. credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5321. Contemporary Fiction.**

Readings selected from canonical and/or experimental fiction. Recent emphases include novels into film, postmodern fiction, Magical Realism, and Saul Bellow. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5322. Form and Theory of Poetry.**

An examination of traditional and current theory and practice in poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures. For MFA credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5323. Studies in Autobiography and Biography.**

A study of selected works in autobiography and biography with special attention to the art forms used in these works. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5324. Studies in Literary Genre.**

A study of one or more literary genres over several historical periods or from a variety of cultural perspectives. The course focuses on genres such as the following: the epic, the novel, the short story, the lyric, the pastoral, the romance, and Irish comic fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5325. Studies in Literature of the Southwest.**

Selected Texas and Southwestern writers with emphasis on fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5327. Research Methods in Rhetoric, Composition, and Technical Communication.**

An introduction to research practices in rhetoric, composition, and technical communications, focusing on the paradigms/perspectives, strategies, and methods that characterize qualitative and quantitative research in these areas. Includes discussion of the history and role of research in the field, research ethics, and issues of representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5328. Directed Portfolio.**

Constitutes partial fulfillment of non-thesis option for students earning the MA in Rhetoric and Composition. Under guidance of a graduate faculty committee, students produce a portfolio of representative written work with written commentary and reflection. Departmental approval required. Graded as credit (CR), progress (PR), no-credit (F). Repeatable once

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5331. Studies in American Poetry.**

Selected poets with a survey of their works. Recent emphases include Walt Whitman, Emily Dickinson, Southern poetry, Denise Levertov, and Robert Bly. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5332. Studies in American Prose.**

Selected authors with special attention to novels. Recent emphases include William Faulkner, Ernest Hemingway, Richard Wright, and Zora Neale Hurston. Repeatable with different emphases for up to nine hours of English credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5345. Southwestern Studies I: Defining the Region.**

An interdisciplinary course that surveys the physical, cultural, and social history of the Southwest, emphasizing architecture, art, literature, philosophy, politics, popular culture, and technology. Historical focus from the 15th to the mid-19th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5346. Southwestern Studies II: Consequences of Region.**

Second course in a survey of physical, cultural, and social history of the Southwest, emphasizing regional and ethnic expressions of culture. This course moves from the broad overview of the first semester to more specific problems in the region and to the artistic products of regional culture. Historical focus is from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5353. Studies in Medieval Literature.**

Emphasis on authors, contexts, and genres of the medieval period. Recent emphases include Anglo-Saxon culture, language, and literature; Chaucer; non-Chaucerian medieval literature; pilgrimage literature. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5354. Studies in Renaissance Literature.**

Emphasis on authors, contexts, and genres of the Renaissance. Recent emphases include Shakespeare, Renaissance epic, Tudor humanism, and John Milton. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5359. Studies in Restoration and Eighteenth-century Literature.**

Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Johnson and his circle, Restoration and eighteenth-century drama, and the eighteenth-century novel. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5364. Studies in the Romantic Movement.**

The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship. Recent emphases include Blake and the other arts, Coleridge, the Wordsworths, Shelley, and Keats. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5366. Studies in Victorian Poetry.**

Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Tennyson, the Brownings, the Pre-Raphaelites, and Hopkins. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5368. Studies in Victorian Prose.**

Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include George Eliot, non-fiction Victorian prose, Victorian women novelists, and Charles Dickens. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5371. Studies in Modern British Literature.**

Selected authors with a survey of their works. Recent emphases include Yeats, Wilde, Auden, and Post-World War II British poetry. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5372. Practicum in English Studies.**

An introduction to key issues and concepts in the teaching of English studies. Required for first-year instructional assistants in the English Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5381. Studies in Modern British and American Drama.**

A survey of major British and American dramatists and their European or world context. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5382. Practicum in Composition.**

An introduction to key issues and concepts in the teaching of expository writing at the college level. Required for first-year teaching assistants in the English Department who have not previously taken ENG 5372. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5384. Critical Theory.**

A study of critical theory, emphasizing the history of criticism and/or contemporary critical theories. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5388. Studies in Literature for Children or Adolescents.**

A study of contemporary works, extending the student's knowledge of the literature and criticism in the field. Typical emphases are generic and/or thematic and include picture books, the contemporary novel, and the children's classics on film. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5389. History of Children's Literature.**

The history of children's literature from the Middle Ages through 1940. May be repeated with different emphases for up to six hours of graduate credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5390. Special Problems.**

Independent study under supervision of a graduate faculty member in English, with in-depth readings and research focused on a special problem in literature and/or language. May be taken only with permission from the assigned professor, the graduate director, and the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5391. Directed Studies in English.**

Students will conduct studies as necessary preparation for graduate-level coursework in English. The nature of the work varies depending on the student's level of academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ENG 5395. Problems in Language and Literature.**

Recent emphases include literary technique and literary theory. Repeatable with different emphases for up to nine hours of English credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ENG 5399A. Thesis.**

First semester of thesis enrollment. No thesis credit awarded until student has completed the thesis in English 5399B. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5399B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5599B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5999B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Masters of Arts (M.A.), Major in Technical Communication

### Major Program

The technical communication major prepares graduates to write in technical and other professional settings and to pursue doctoral work in the field.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/tcom.html>.

### Degree Requirements

The master of arts (M.A.) with a technical communication (MATC) major consists of 30 graduate hours distributed as follows:

#### Internship Track

##### Non-minor Option

##### Core Course Work

ENG 5311	Foundations in Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3

or ENG 5326 Contemporary Composition Theory

<b>Internship Course Work</b>		
ENG 5312	Editing the Professional Publication	3
<b>Technologically-focused Course Work</b>		
Choose 9 hours from the table at the bottom of this page		9
<b>Prescribed Electives</b>		
Select 12 hours of the following:		12
ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5312	Editing the Professional Publication (may be taken twice) <sup>1</sup>	
ENG 5313	Studies in Principles of Technical Communication <sup>1</sup>	
ENG 5314	Specializations in Technical Communication <sup>1</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>1</sup>	
ENG 5324	Studies in Literary Genre	
Portfolio Exam		
Total Hours		30

<sup>1</sup> Advisor approved topics.

#### Minor in Cognate Option

With permission of the MATC director, students may replace 6 hours of prescribed electives with 6 hours of course work in rhetoric and composition or literature courses from Texas State as a minor in cognate. Likewise, students may opt for a minor in another program or discipline, but they should confer with the MATC director to choose an appropriate minor. Minors are typically three courses or more and require an advisor from the discipline in which the courses are taken. Students are not required to have either a cognate or minor to complete the MATC degree.

#### Core Course Work

ENG 5311	Foundations in Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3
or ENG 5326 Contemporary Composition Theory		

<b>Internship Course Work</b>		
ENG 5312	Editing the Professional Publication	3
<b>Technologically-focused Course Work</b>		
Choose 9 hours from the table at the bottom of this page		9
<b>Prescribed Electives</b>		
Select 6 hours of the following:		6
ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5312	Editing the Professional Publication (may be taken twice) <sup>1</sup>	
ENG 5313	Studies in Principles of Technical Communication <sup>1</sup>	
ENG 5314	Specializations in Technical Communication <sup>1</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>1</sup>	
ENG 5324	Studies in Literary Genre	
<b>Minor Course Work</b>		
Choose an approved 6-hour minor		6
Total Hours		30

<sup>1</sup> Advisor approved topics.

## Thesis Track

### Non-minor Option

#### Core Course Work

ENG 5311	Foundations in Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3
or ENG 5326	Contemporary Composition Theory	

#### Technologically-focused Course Work

Choose 9 hours from the table below 9

#### Prescribed Electives

Select 9 hours from the following: 9

ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5312	Editing the Professional Publication (may be taken twice) <sup>1</sup>	
ENG 5313	Studies in Principles of Technical Communication <sup>1</sup>	
ENG 5314	Specializations in Technical Communication <sup>1</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>1</sup>	
ENG 5324	Studies in Literary Genre	

#### Thesis Course Work

Choose a minimum 6 hours 6

ENG 5199B	Thesis	
ENG 5299B	Thesis	
ENG 5399A	Thesis	
ENG 5399B	Thesis	
ENG 5599B	Thesis	
ENG 5999B	Thesis	

Total Hours 30

### Minor in Cognate Option

With permission of the MATC director, students may replace 6 hours of prescribed electives with 6 hours of course work in rhetoric and composition or literature courses from Texas State as a minor in cognate. Likewise, students may opt for a minor in another program or discipline, but they should confer with the MATC director to choose an appropriate minor. Minors are typically three courses or more and require an advisor from the discipline in which the courses are taken. Students are not required to have either a cognate or minor to complete the MATC degree.

#### Core Course Work

ENG 5311	Foundations in Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3
or ENG 5326	Contemporary Composition Theory	

#### Technologically-focused Course Work

Choose 9 hours from the table below 9

#### Prescribed Electives

Select 3 hours from the following: 3

ENG 5300	Language Problems in a Multicultural Environment	
ENG 5310	Studies in English Language and Linguistics	
ENG 5312	Editing the Professional Publication (may be taken twice) <sup>1</sup>	
ENG 5313	Studies in Principles of Technical Communication <sup>1</sup>	
ENG 5314	Specializations in Technical Communication <sup>1</sup>	
ENG 5317	Specializations in Rhetoric and Composition <sup>1</sup>	

ENG 5324	Studies in Literary Genre	
<b>Minor Course Work</b>		
Choose an approved 6-hour minor		6
<b>Thesis Course Work</b>		
Choose a minimum 6 hours		6
ENG 5199B	Thesis	
ENG 5299B	Thesis	
ENG 5399A	Thesis	
ENG 5399B	Thesis	
ENG 5599B	Thesis	
ENG 5999B	Thesis	
Total Hours		30

<sup>1</sup> Advisor approved topics.

## Technologically-focused Courses

ENG 5310	Studies in English Language and Linguistics (Digital Literacies)	3
ENG 5313	Studies in Principles of Technical Communication (Digital & Print Document Design)	3
ENG 5313	Studies in Principles of Technical Communication (Digital Media and the Web)	3
ENG 5313	Studies in Principles of Technical Communication (Ethics in Technical Communication)	3
ENG 5313	Studies in Principles of Technical Communication (Technical Editing)	3
ENG 5313	Studies in Principles of Technical Communication (Visual Rhetoric)	3
ENG 5314	Specializations in Technical Communication (International Technical Communication)	3
ENG 5314	Specializations in Technical Communication (Software Documentation)	3
ENG 5326	Contemporary Composition Theory (Computers and Writing)	3

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves



vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.

2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in English: ENG

## Courses Offered English (ENG)

Graduate courses listed as "repeatable" ordinarily count toward nine hours of English degree credit unless otherwise indicated. Exceptions require written justification and departmental approval. Specific emphases of repeatable courses vary by term and instructor, but they may focus on literary and rhetorical forms and genres; authors, periods, or literary movements; perspectives from social, intellectual, and cultural studies; literary themes; or theoretical and practical information for technical communication. The department provides descriptions of specific courses prior to each term's enrollment period.

### ENG 5199B. Thesis.

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### ENG 5299B. Thesis.

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### ENG 5300. Language Problems in a Multicultural Environment.

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

### ENG 5301. Literary Scholarship.

An introduction to scholarly resources, methods, theories, and responsibilities that guide the study and interpretations of literature in English. Literary texts chosen for detailed examination vary with expertise of the instructor. Required in first year of M.A. with a Literature Major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ENG 5302. Media Studies.**

The study of film and media history, theory, and practice. Special topics may include videography, video editing, genre, filmmakers, and regional film

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5310. Studies in English Language and Linguistics.**

A study of the English language, with special attention to phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5311. Foundations in Technical Communication.**

An introduction to the theory and practice of technical communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5312. Editing the Professional Publication.**

The editing, design, layout, and proofreading of a professional publication. This course is an internship. Graded on a credit (CR), no credit (F) basis. May be repeated one time with different emphasis

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5313. Studies in Principles of Technical Communication.**

A group of courses that provide students theoretical and practical information useful in any position in technical communication. Recent emphases include Digital Media and the web, Technical Editing, and Visual Rhetoric. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5314. Specializations in Technical Communication.**

A group of courses that provide students theoretical and practical information for specialized types of technical communication. Recent emphases include International Technical Communication Proposal Writing, Software Documentation and Writing for the Government. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5315. Graduate Writing Workshop.**

A studio course in which the primary texts are student manuscripts. Concentrations in fiction or poetry examine principles and techniques of creating, evaluating, and revising writing in these genres. The course requires class members to review writing produced by other workshop members. 12 hours of M.F.A. credit required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5316. Foundations in Rhetoric and Composition.**

A group of courses providing students with theoretical, pedagogical, and methodological foundations in the field of rhetoric and composition. Emphases vary but include Contemporary Composition Theory and Composition Pedagogy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5317. Specializations in Rhetoric and Composition.**

A group of courses providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Center Theory, Practice, and Administration; Writing Across the Curriculum; Service Learning; and Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5318. Effective Communication (Writing).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on writing. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5319. Effective Communication (Reading).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on reading. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5320. Form and Theory of Fiction.**

An examination of traditional and current theory and practice in fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures. For M.F.A. credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5321. Contemporary Fiction.**

Readings selected from canonical and/or experimental fiction. Recent emphases include novels into film, postmodern fiction, Magical Realism, and Saul Bellow. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5322. Form and Theory of Poetry.**

An examination of traditional and current theory and practice in poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures. For MFA credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5323. Studies in Autobiography and Biography.**

A study of selected works in autobiography and biography with special attention to the art forms used in these works. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5324. Studies in Literary Genre.**

A study of one or more literary genres over several historical periods or from a variety of cultural perspectives. The course focuses on genres such as the following: the epic, the novel, the short story, the lyric, the pastoral, the romance, and Irish comic fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5325. Studies in Literature of the Southwest.**

Selected Texas and Southwestern writers with emphasis on fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5327. Research Methods in Rhetoric, Composition, and Technical Communication.**

An introduction to research practices in rhetoric, composition, and technical communications, focusing on the paradigms/perspectives, strategies, and methods that characterize qualitative and quantitative research in these areas. Includes discussion of the history and role of research in the field, research ethics, and issues of representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5328. Directed Portfolio.**

Constitutes partial fulfillment of non-thesis option for students earning the MA in Rhetoric and Composition. Under guidance of a graduate faculty committee, students produce a portfolio of representative written work with written commentary and reflection. Departmental approval required. Graded as credit (CR), progress (PR), no-credit (F). Repeatable once

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5331. Studies in American Poetry.**

Selected poets with a survey of their works. Recent emphases include Walt Whitman, Emily Dickinson, Southern poetry, Denise Levertov, and Robert Bly. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5332. Studies in American Prose.**

Selected authors with special attention to novels. Recent emphases include William Faulkner, Ernest Hemingway, Richard Wright, and Zora Neale Hurston. Repeatable with different emphases for up to nine hours of English credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5345. Southwestern Studies I: Defining the Region.**

An interdisciplinary course that surveys the physical, cultural, and social history of the Southwest, emphasizing architecture, art, literature, philosophy, politics, popular culture, and technology. Historical focus from the 15th to the mid-19th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5346. Southwestern Studies II: Consequences of Region.**

Second course in a survey of physical, cultural, and social history of the Southwest, emphasizing regional and ethnic expressions of culture. This course moves from the broad overview of the first semester to more specific problems in the region and to the artistic products of regional culture. Historical focus is from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5353. Studies in Medieval Literature.**

Emphasis on authors, contexts, and genres of the medieval period. Recent emphases include Anglo-Saxon culture, language, and literature; Chaucer; non-Chaucerian medieval literature; pilgrimage literature.

Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5354. Studies in Renaissance Literature.**

Emphasis on authors, contexts, and genres of the Renaissance. Recent emphases include Shakespeare, Renaissance epic, Tudor humanism, and John Milton. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5359. Studies in Restoration and Eighteenth-century Literature.**

Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Johnson and his circle, Restoration and eighteenth-century drama, and the eighteenth-century novel. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5364. Studies in the Romantic Movement.**

The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship. Recent emphases include Blake and the other arts, Coleridge, the Wordsworths, Shelley, and Keats. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5366. Studies in Victorian Poetry.**

Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Tennyson, the Brownings, the Pre-Raphaelites, and Hopkins. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5368. Studies in Victorian Prose.**

Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include George Eliot, non-fiction Victorian prose, Victorian women novelists, and Charles Dickens. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5371. Studies in Modern British Literature.**

Selected authors with a survey of their works. Recent emphases include Yeats, Wilde, Auden, and Post-World War II British poetry. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5372. Practicum in English Studies.**

An introduction to key issues and concepts in the teaching of English studies. Required for first-year instructional assistants in the English Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5381. Studies in Modern British and American Drama.**

A survey of major British and American dramatists and their European or world context. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5382. Practicum in Composition.**

An introduction to key issues and concepts in the teaching of expository writing at the college level. Required for first-year teaching assistants in the English Department who have not previously taken ENG 5372. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5384. Critical Theory.**

A study of critical theory, emphasizing the history of criticism and/or contemporary critical theories. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5388. Studies in Literature for Children or Adolescents.**

A study of contemporary works, extending the student's knowledge of the literature and criticism in the field. Typical emphases are generic and/or thematic and include picture books, the contemporary novel, and the children's classics on film. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5389. History of Children's Literature.**

The history of children's literature from the Middle Ages through 1940. May be repeated with different emphases for up to six hours of graduate credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5390. Special Problems.**

Independent study under supervision of a graduate faculty member in English, with in-depth readings and research focused on a special problem in literature and/or language. May be taken only with permission from the assigned professor, the graduate director, and the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5391. Directed Studies in English.**

Students will conduct studies as necessary preparation for graduate-level coursework in English. The nature of the work varies depending on the student's level of academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ENG 5395. Problems in Language and Literature.**

Recent emphases include literary technique and literary theory. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5399A. Thesis.**

First semester of thesis enrollment. No thesis credit awarded until student has completed the thesis in English 5399B. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5399B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5599B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5999B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Literature

### Minor Requirements

Students with majors other than literature may select literature as a minor. Minors should have completed at least 21 hours of undergraduate English, including at least 9 hours of advanced courses, with a GPA of 2.75 or higher (4.0 scale).

The graduate minor in literature requires 6 hours of 5000-level English course work.

## Department of Geography

Evans Liberal Arts Building Room 139

T: 512.245.2170 F: 512.245.8353

<http://www.geo.txstate.edu/>

### Mission

The Department of Geography's mission is to provide its students with educational experiences of the highest quality and to conduct vital research that produces valuable publications. The department is committed to outstanding teaching and scholarly activities within the framework of academic freedom and diversity of ideas. The Department of Geography is dedicated to the advancement of knowledge and to serving our communities, from local to international.

### Vision

The Department of Geography will continue to stress both the theoretical and applied realms in all of our degree programs. We will provide a high-quality educational experience and lead the discipline with innovative applied work. We will actively recruit top students nationwide and internationally for our research degree programs. In addition, we expect that significant faculty scholarship and grant activity will support our goal of becoming a top tier, nationally recognized Ph.D.-granting department.

### Financial Assistance

Graduate assistantships are available to qualified candidates. Please contact the graduate program coordinator, Department of Geography, for more information about financial assistance and the degree programs. For scholarship information, please contact the office of The Graduate College at or visit their website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Fin\\_Grad\\_Ed/Scholarships.html](http://www.gradcollege.txstate.edu/Prospect_Students/Fin_Grad_Ed/Scholarships.html).

## Doctor of Philosophy (Ph.D.)

- Major in Geographic Education (p. 982)
- Major in Geographic Information Science (p. 990)
- Major in Geography (p. 997)

## Master of Applied Geography (M.A.Geo.)

- Major in Geography (p. 1009)
- Major in Geographic Information Science (p. 1004)
- Major in Geography Resource & Environmental Studies (p. 1020)

## Master of Science (M.S.)

- Major in Geography (p. 1014)

## Minor

- Geography (p. 1025)

## Doctor of Philosophy (Ph.D.), Major in Geographic Education

### Ph.D. Program

The course curriculum for the doctoral degree is designed to provide depth and breadth of knowledge in geographic theory and research methods. To be admitted to the geography doctoral program, a student must have completed a master's degree in geography or in a related discipline.

Each doctoral student will have their program tailored to meet the academic goals agreed upon in consultation with the Ph.D. research advisor, with the approval of the graduate program coordinator, the department chair, and the dean of The Graduate College. All programs will include the necessary core, skills, specialization, and internal and external elective courses.

### Educational Goal

The educational goal of the program is to provide a Ph.D. in geography through which students will be educated in the process of geographic research, the development of new knowledge, and the application of this research and knowledge to solve problems with spatial dimensions.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/envgeo.html>.

### Financial Assistance

Graduate assistantships and scholarships are available to qualified candidates. Please contact the graduate staff advisor in the Department of Geography for more information about assistantships. The office of The Graduate College can provide further information regarding scholarships.

### Course Work

#### Degree Audit

In the first term that a student enrolls for doctoral study, the student should confer with their graduate advisor and prepare a degree audit for their program. Doctoral degree audits are tailored with the individual

student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

## Course Work Requirements

### Required Core Courses

(Core courses are prerequisites to other research courses)

GEO 7300	Advanced Geographic Research Design	3
GEO 7301	Advanced Quantitative Methods in Geography	3
GEO 7302	Nature and Philosophy of Geography	3

### Skill Courses

Select 4 hours from the following:		4
GEO 7415	Geographic Applications of Remote Sensing	
GEO 7417	Geographic Information Systems	
GEO 7430	Field Methods	
GEO 7447	Spatial Graphics in Geographic Education	

### Specialization Courses

Select 12 hours from the following:		12
GEO 7342	Theories and Methods in Geographic Education	
GEO 7344	Seminar in Geographic Curriculum	
GEO 7346	Standards and Assessment in Geography	
GEO 7447	Spatial Graphics in Geographic Education	
GEO 7371	Advanced Seminar in Geographic Education	
GEO 7390	Independent Study <sup>1</sup>	

### Elective Courses (at the 7000-level)

Select 6 hours of electives in Geography or related fields		6
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### Dissertation Research and Writing<sup>2</sup>

Select 15 hours from the following:		15
GEO 7199B	Dissertation	
GEO 7299B	Dissertation	
GEO 7399B	Dissertation	
GEO 7599B	Dissertation	
GEO 7699B	Dissertation	
GEO 7999B	Dissertation	

<sup>1</sup> Repeatable up to six hours with a different topic.

<sup>2</sup> The student must ensure that they enroll in a combination of dissertation courses that equals 15 hours (i.e., 7399X, 7699X, 7699X; or 7699X and 7999X; etc.) in order to meet the minimum dissertation credit hour requirement.

**Total Program Hours: 46**

## Advancement to Candidacy

### Applications for Advancement to Candidacy

The student will need to download the Application for Advancement to Candidacy form from The Graduate College website. The student will need to complete the form and return it to their department, who will then submit it to The Graduate College for approval.

### Advancement to Candidacy Time Limit

Doctoral students will need to be advanced to candidacy within four years of initiating Ph.D. course work. A student will need to indicate their intent to advance to candidacy during the term in which the student will complete the 31 hours of required course work.

No credit will be applied toward a student's doctoral degree for course work completed more than four years before the date on which the student is to advance to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the student's Ph.D. advisor and graduate coordinator who, in turn, submits a recommendation to the dean of The Graduate College.

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below "B" on any graduate course work may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College at least ten days before the approval for advancement to candidacy.

### Semester Hour Requirements

The student must complete 31 semester hours of graduate course work to meet the minimum requirements for advancement to candidacy. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

### Advancement to Candidacy Comprehensive Examination

All applicants for advancement to candidacy for the doctoral degree must pass a comprehensive examination. The examination procedure may be obtained from the graduate staff advisor. Both prevailing expectations in the field and the actual courses taken by the candidate will determine the subject matter of the examination. This examination may not be taken until all required course work has been completed. The student may take the candidacy comprehensive examination without being enrolled in course work provided they have not been enrolled in dissertation course(s).

Arrangements for the examination will be made with the student's Ph.D. advisor. The results of the "Advancement to Candidacy Comprehensive Examination" must be filed in the office of The Graduate College before final approval to advance to candidacy is given by the dean of The Graduate College. The department is responsible for submitting the report to the office of The Graduate College.

### Dissertation Proposal

The dissertation proposal must be approved by the dean of The Graduate College and successfully defended in front of the dissertation committee before a student can advance to candidacy. Information about the dissertation procedures can be found in the "Dissertation Research and Writing" section of this catalog.

### Recommendation for Advancement to Candidacy

The geography graduate committee recommends the applicant for advancement to candidacy to the chair of the Department of Geography and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been completed.



## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of Kate L. Turabian's *A Manual for Writers* or the *Annals of the Association of American Geographers*.

## Dissertation Enrollment Requirements

### Enrollment

After being admitted to candidacy, students must be continuously enrolled each term for dissertation hours. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for that term. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

### Hours

Students must complete a minimum of 15 semester hours of dissertation research and writing credit.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students are expected to complete the dissertation within three years of advancement to candidacy. The geography graduate committee will review the student's progress annually.

## Ph.D. Advisory Committee

The Ph.D. advisory committee must be formed to oversee the research and writing of the dissertation. The Ph.D. advisory committee will include a Ph.D. advisor and a minimum of three additional committee members (two of whom must be from the Department of Geography and one from outside the department). The members must be chosen from qualified Ph.D. faculty. The Ph.D. advisor and the advisory committee will be selected in consultation with the student and through mutual agreement with committee members. The Ph.D. advisor will chair the dissertation committee and must be from the major department. The advisor and advisory committee must be approved by the graduate program coordinator, the department chair, as listed on the "Dissertation Committee Request" form and submitted to the dean of The Graduate College for final approval.

## Committee Changes

Any changes to the advisory committee must be submitted for approval to the advisory committee chair, the graduate coordinator, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the final oral comprehensive examination. The "Dissertation Advisor/Committee Member Change Request" form may be obtained from The Graduate College website.

## Dissertation Proposal

Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal" form to their dissertation advisor. After

obtaining **original** committee members' signatures and the department chair's signature, the student must submit the dissertation proposal and the form to the dean of The Graduate College for approval before proceeding with research on the dissertation. The proposal form may be obtained from The Graduate College website.

## Defense of the Dissertation Proposal

Students must defend the dissertation proposal in an oral examination with the Ph.D. advisory committee. The examination will address the proposed dissertation topic (problem definition and scope), research method, and relevant literature. The advisory committee must sign the "Defense of the Dissertation Proposal" form and then submit it for the signature of the department chair. The original must be sent to the office of The Graduate College.

## Final Oral Comprehensive Examination

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. To schedule the final oral examination, the student must apply to their Ph.D. advisor the term that they complete the dissertation. A completed "Doctoral Comprehensive Examination Report" form must be submitted to the dean of The Graduate College.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation requires positive votes from the Ph.D. advisor and from a majority of the members of the Ph.D. advisory committee. One copy of the dissertation and the signed "Thesis/Dissertation Committee Approval" form must be submitted to the dean of The Graduate College for final approval once the committee has approved the dissertation. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis/Dissertation* (available on The Graduate College website) for specific submission guidelines.

Doctoral level courses in Geography: GEO

## Courses Offered

### Geography (GEO)

#### GEO 7150. Practicum in Teaching Geography.

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### GEO 7190. Independent Study.

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7199A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7250. Practicum in Teaching Geography.**

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**GEO 7290. Independent Study.**

This course is designed to provide a student with credit while conducting independent research in consultation with his or her research advisor. Repeatable once for additional credit with a different topic

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7299A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7300. Advanced Geographic Research Design.**

The purpose of this course is to develop an appreciation for the process of research as practiced by contemporary professional geographers.

Topics covered include formulating research problems, reviewing and critiquing published literature, developing and executing a research design, and completing a research project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7301. Advanced Quantitative Methods in Geography.**

How to mathematically and statistically model geographic problems is the focus of this course. The application of multivariate statistical techniques to geographic problems and the problems that spatial data create in the application of statistical and other quantitative techniques are central issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7302. Nature and Philosophy of Geography.**

This course is a critical analysis of the historical development of geographic thought: its roots, its present status, and future directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7305. Historical Geography of the American Environment.**

This course examines the spatial evolution of environmental problems in the United States using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental problems in the context of urbanization and industrialism. The course will expose students to the most significant work by geographers in this area to date, and to the historical development of environmental geographic analysis in the U.S

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7308. Advanced Regional Field Studies.**

Advanced study of geographic phenomena during field excursions to a particular site or region. Course includes preparation of site inventory, site guides, and on-site presentations. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7313. Environmental Systems.**

Theories and concepts involved in environmental systems will be examined. Tools and research issues relevant to their analysis will also be explored. Basic principles, as well as specific research questions and techniques, will be proposed to give students a foundation for analysis of current issues involving environmental systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7314. Geography of Resource Development.**

This course will provide a detailed and in-depth analysis of theories, policies, and practices regarding resource development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7316. Remote Sensing and the Environment.**

A detailed examination and implementation of sophisticated approaches for processing satellite digital images with emphasis on environmental applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7318. GIS and Environmental Geography.**

This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7330. Geography of Natural Hazards.**

This seminar examines the interdisciplinary nature of natural hazards research, the evolution of theories and thought in natural hazards, the geophysical causes of natural hazards, human impact and response to natural disasters, and issues and challenges in the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7331. Geography of the Hazards of Technology.**

This research seminar focuses on the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. Special attention will be paid to the theoretical and conceptual understandings of hazards among both professionals and the public to evaluate how these views affect policies, choices, behaviors, and impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7334. Geographic Aspects of Water.**

This seminar is a critical analysis of developmental and current literature that define water's critical role in determining the physical and cultural characteristics of the earth. Principal focus will be placed on water's role on land use and as a critical resource

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7342. Theories and Methods in Geographic Education.**

This seminar is a critical analysis of previous and current literature concerning problems in pedagogy, philosophy, learning theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7344. Seminar in Geographic Curriculum.**

The seminar will be a survey and discussion of major curricula in geographic education. Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7346. Standards and Assessment in Geography.**

An introduction to assessment procedures in geography education is central to the course. Analysis of national standards in geography and how they have affected geographic learning in grades K-12 will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7348. Ethnic Geography.**

This course will engage student in the in-depth critical analysis of the theories and methods of ethnic geography. The students will conduct careful research on a topic in ethnic geography. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 7349. Population Geography.**

An in-depth study of the growth, movement, and spatial distribution of human populations is the central theme. Students will read and discuss professional articles that stress both theory and analytical techniques. Topics will include population growth and the environment, rural and small town depopulation, spatial diffusion processes, migration trends and theories, urban population growth, and techniques such as multivariate analysis and population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7361. Advanced Geographic Information Systems.**

This course provides exposure to advanced topics in GIS, particularly to quantitative methods and techniques for developing and interpreting models of natural and anthropogenic phenomena over the geographical space

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7362. Geographic Visualization.**

This course focuses on the interdisciplinary field of Geographic Visualization. Students will review visualization research in computer graphics, human computer interaction, GIScience, and cartography and relate the research approaches to useful and usable geographic visualizations. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7364. Geocomputation.**

Geocomputation reviews and analyzes concepts of computational modeling in Geography. The course will include modeling theory and advanced topics such as parallel processing, neural networks, cellular automata, scientific visualization, and fuzzy modeling. Students will practice model development, specifically spatially explicit simulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7365. Theoretical Cartography.**

This course focuses on theoretical developments in cartography, and in particular looks at the role of maps and other graphic devices as tools for the discovery, analysis, and communication of geographical knowledge.

Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7366. Advanced Topics in Remote Sensing.**

The course focuses on advanced topics including the theoretical basis, mathematical foundations, and current research frontiers in remote sensing. Prerequisite: GEO 5415 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7370. Advanced Seminar in Environmental Geography.**

This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7371. Advanced Seminar in Geographic Education.**

This research seminar analyzes literature and research into recent trends in geographic education. Emphasis will be on new developments in curriculum, content, and teaching methodologies. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7372. Seminar in Geographic Information Science.**

This course deals with advanced and current research issues in Geographic Information Science. Based on this objective, the course aims at educating doctoral students to conduct research in Geographic Information Science as well as develop innovative applications of Geographic Information Science. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7390. Independent Study.**

Research in geography under the direction of a supervising professor.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 7393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393C. Managing Urbanization.**

This course examines survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393D. International Migration.**

This course provides a survey of geographic and social science research conducted across various topics of international migration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393E. Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulation in land management, and the human-environment impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393F. Gender and Development.**

This course is a survey of geographic and social science research conducted across various topics of gender studies and international development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393G. Political Geography.**

This course is a survey of geographic and social science research conducted across various topics of political geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393H. Urban Environment.**

This course explores scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on the myriad ways in which human-environment interaction influences, and is influenced by, urban geography and the urban experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**GEO 7393I. Contemporary Topics in Geography Education.**

This course will be a survey of recent initiatives in geography education. This course will focus on areas such as research, assessment, and the development and use of instructional materials in relation to the National Science Foundation funded "Road Map for 21st Century Geography Education"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393J. Soil and Society.**

This course explores the importance of soil resources for environmental and socioeconomic sustainability. Soil science will be introduced, but the majority of the course will focus on soil's value to societies. Specific topics that will be explored include soil geography, historical abuses of soil resources, and current conservation efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393K. Biogeomorphology.**

This course will examine the ways in which plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms, and geological factors affect spatial distributions of animals and plants. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393L. Lidar.**

This course is an introduction to Light Detection and Ranging (lidar) systems for mapping and analysis. Students will learn to successfully apply knowledge of lidar sensors and technology for a variety of geographic information science applications. Students must have prior knowledge and experience with GIS analysis and mapping tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393M. Global Climate Change.**

This course examines various implications of global climate change, including impacts on science, politics, and society. Emphasis will be placed on anthropogenic influences across the 20th and 21st centuries, contemporary mitigation options, and future adaptation strategies amidst a complex and dynamic climate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393N. Rivers and Society.**

This course examines river system processes and how they are influenced by human activities. We will discuss the principles and practices of large-scale river basin management with an emphasis on the different perspectives and motivations driving different management goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393O. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs.

Prerequisite: GEO 5418 or the equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7399A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7415. Geographic Applications of Remote Sensing.**

Students will focus on geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7417. Geographic Information Systems.**

Course is concerned with the analysis of interpretation of maps stored in digital form. Students are introduced to the concepts involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**GEO 7418. Technical Foundations and Methods in Geographic Information Science.**

This course is concerned with the analysis and interpretation of maps stored in digital form. It will cover a variety of topics of interest to those seeking more in-depth knowledge of GIS and ancillary topics such as spatial statistics. The course provides an in-depth understanding of spatial analysis and modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7447. Spatial Graphics in Geographic Education.**

This course examines traditional and innovative geoinformation and geovisualization technologies and their relationship to spatial thinking and the teaching and learning of geography. The course reviews academic literature, research methods, and teaching methodologies related to spatial graphics in geographic education. The lab portion provides geovisualization design skills for geographic education

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7599A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

# Doctor of Philosophy (Ph.D.), Major in Geographic Information Science

## Ph.D. Program

The course curriculum for the doctoral degree is designed to provide depth and breadth of knowledge in geographic theory and research methods. To be admitted to the geography doctoral program, a student must have completed a master's degree in geography or in a related discipline.

Each doctoral student will have her/his program tailored to meet the academic goals agreed upon in consultation with the Ph.D. research advisor, with the approval of the graduate program coordinator, the department chair, and the dean of The Graduate College. All programs will include the necessary core, skills, specialization, and internal and external elective courses.

## Educational Goal

The educational goal of the program is to provide a Ph.D. in geography through which students will be educated in the process of geographic research, the development of new knowledge, and the application of this research and knowledge to solve problems with spatial dimensions.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/envgeo.html>.

## Financial Assistance

Graduate assistantships and scholarships are available to qualified candidates. Please contact the graduate staff advisor in the Department of Geography for more information about assistantships. The office of The Graduate College can provide further information regarding scholarships.

## Course Work

### Degree Audit

In the first term that a student enrolls for doctoral study, the student should confer with their graduate advisor and prepare a degree audit for their program. Doctoral degree audits are tailored with the individual student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

### Course Work Requirements

#### Required Core Courses

(Core courses are prerequisites to other research courses.)

GEO 7300	Advanced Geographic Research Design	3
GEO 7301	Advanced Quantitative Methods in Geography	3
GEO 7302	Nature and Philosophy of Geography	3

#### Skill Course

GEO 7418	Technical Foundations and Methods in Geographic Information Science	4
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#### Specialization Courses

Select 12 hours from the following:		12
GEO 7316	Remote Sensing and the Environment	

GEO 7318	GIS and Environmental Geography	
GEO 7447	Spatial Graphics in Geographic Education	
GEO 7361	Advanced Geographic Information Systems	
GEO 7362	Geographic Visualization	
GEO 7364	Geocomputation	
GEO 7365	Theoretical Cartography	
GEO 7366	Advanced Topics in Remote Sensing	
GEO 7372	Seminar in Geographic Information Science <sup>1</sup>	
<b>Elective Courses (at the 7000-level)</b>		
Select 6 hours of elective courses in Geography or related fields		6
<b>Dissertation Research and Writing <sup>2</sup></b>		
Select 15 hours from the following:		15
GEO 7199C	Dissertation	
GEO 7299C	Dissertation	
GEO 7399C	Dissertation	
GEO 7699C	Dissertation	
GEO 7999C	Dissertation	

<sup>1</sup> Repeatable up to six hours with a different topic.

<sup>2</sup> The student must ensure that he or she enrolls in a combination of dissertation courses that equals 15 hours (i.e., 7399X, 7699X, 7699X; or 7699X and 7999X; etc.) in order to meet the minimum dissertation credit hour requirement.

**Total Program Hours: 46**

## Advancement to Candidacy

### Applications for Advancement to Candidacy

The student will need to download the Application for Advancement to Candidacy form from The Graduate College website. The student will need to complete the form and return it to their department, who will then submit it to The Graduate College for approval.

### Advancement to Candidacy Time Limit

Doctoral students will need to be advanced to candidacy within four years of initiating Ph.D. course work. A student will need to indicate their intent to advance to candidacy during the term in which the student will complete the 31 hours of required course work.

No credit will be applied toward a student's doctoral degree for course work completed more than four years before the date on which the student is to advance to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the student's Ph.D. advisor and graduate coordinator who, in turn, submits a recommendation to the dean of The Graduate College.

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below "B" on any graduate course work may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College at least ten days before the approval for advancement to candidacy.

## Semester Hour Requirements

The student must complete 31 semester hours of graduate course work to meet the minimum requirements for advancement to candidacy. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

## Advancement to Candidacy Comprehensive Examination

All applicants for advancement to candidacy for the doctoral degree must pass a comprehensive examination. The examination procedure may be obtained from the graduate staff advisor. Both prevailing expectations in the field and the actual courses taken by the candidate will determine the subject matter of the examination. This examination may not be taken until all required course work has been completed. The student may take the candidacy comprehensive examination without being enrolled in course work provided they have not been enrolled in dissertation course(s).

Arrangements for the examination will be made with the student's Ph.D. advisor. The results of the "Advancement to Candidacy Comprehensive Examination" must be filed in the office of The Graduate College before final approval to advance to candidacy is given by the dean of The Graduate College. The department is responsible for submitting the report to the office of The Graduate College.

## Dissertation Proposal

The dissertation proposal must be approved by the dean of The Graduate College and successfully defended in front of the dissertation committee before a student can advance to candidacy. Information about the dissertation procedures can be found in the "Dissertation Research and Writing" section of this catalog.

## Recommendation for Advancement to Candidacy

The geography graduate committee recommends the applicant for advancement to candidacy to the chair of the Department of Geography and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been completed.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of Kate L. Turabian's *A Manual for Writers* or the *Annals of the Association of American Geographers*.

## Dissertation Enrollment Requirements

### Enrollment

After being admitted to candidacy, students must be continuously enrolled each term for dissertation hours. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for that term. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

### Hours

Students must complete a minimum of 15 semester hours of dissertation research and writing credit.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students are expected to complete the dissertation within three years of advancement to candidacy. The geography graduate committee will review the student's progress annually.

## Ph.D. Advisory Committee

The Ph.D. advisory committee must be formed to oversee the research and writing of the dissertation. The Ph.D. advisory committee will include a Ph.D. advisor and a minimum of three additional committee members (two of whom must be from the Department of Geography and one from outside the department). The members must be chosen from qualified Ph.D. faculty. The Ph.D. advisor and the advisory committee will be selected in consultation with the student and through mutual agreement with committee members. The Ph.D. advisor will chair the dissertation committee and must be from the major department. The advisor and advisory committee must be approved by the graduate program coordinator, the department chair, as listed on the "Dissertation Committee Request" form and submitted to the dean of The Graduate College for final approval.

## Committee Changes

Any changes to the advisory committee must be submitted for approval to the advisory committee chair, the graduate coordinator, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the final oral comprehensive examination. The "Dissertation Advisor/Committee Member Change Request" form may be obtained from The Graduate College website.

## Dissertation Proposal

Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal" form to their dissertation advisor. After obtaining **original** committee members' signatures and the department chair's signature, the student must submit the dissertation proposal and the form to the dean of The Graduate College for approval before proceeding with research on the dissertation. The proposal form may be obtained from The Graduate College website.

## Defense of the Dissertation Proposal

Students must defend the dissertation proposal in an oral examination with the Ph.D. advisory committee. The examination will address the proposed dissertation topic (problem definition and scope), research method, and relevant literature. The advisory committee must sign the "Defense of the Dissertation Proposal" form and then submit it for the signature of the department chair. The original must be sent to the office of The Graduate College.

## Final Oral Comprehensive Examination

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. To schedule the final oral examination, the student must apply to their Ph.D. advisor the term that they complete the dissertation. A completed "Doctoral

Comprehensive Examination Report" form must be submitted to the dean of The Graduate College.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation requires positive votes from the Ph.D. advisor and from a majority of the members of the Ph.D. advisory committee. One copy of the dissertation and the signed "Thesis/Dissertation Committee Approval" form must be submitted to the dean of The Graduate College for final approval once the committee has approved the dissertation. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis/Dissertation* (available on The Graduate College website) for specific submission guidelines.

Doctoral level courses in Geography: GEO

## Courses Offered Geography (GEO)

### GEO 7150. Practicum in Teaching Geography.

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### GEO 7190. Independent Study.

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### GEO 7199A. Dissertation.

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7199B. Dissertation.

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7199C. Dissertation.

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7250. Practicum in Teaching Geography.

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### GEO 7290. Independent Study.

This course is designed to provide a student with credit while conducting independent research in consultation with his or her research advisor. Repeatable once for additional credit with a different topic

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### GEO 7299A. Dissertation.

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7299B. Dissertation.

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7299C. Dissertation.

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7300. Advanced Geographic Research Design.

The purpose of this course is to develop an appreciation for the process of research as practiced by contemporary professional geographers.

Topics covered include formulating research problems, reviewing and critiquing published literature, developing and executing a research design, and completing a research project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 7301. Advanced Quantitative Methods in Geography.**

How to mathematically and statistically model geographic problems is the focus of this course. The application of multivariate statistical techniques to geographic problems and the problems that spatial data create in the application of statistical and other quantitative techniques are central issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7302. Nature and Philosophy of Geography.**

This course is a critical analysis of the historical development of geographic thought: its roots, its present status, and future directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7305. Historical Geography of the American Environment.**

This course examines the spatial evolution of environmental problems in the United States using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental problems in the context of urbanization and industrialism. The course will expose students to the most significant work by geographers in this area to date, and to the historical development of environmental geographic analysis in the U.S

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7308. Advanced Regional Field Studies.**

Advanced study of geographic phenomena during field excursions to a particular site or region. Course includes preparation of site inventory, site guides, and on-site presentations. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7313. Environmental Systems.**

Theories and concepts involved in environmental systems will be examined. Tools and research issues relevant to their analysis will also be explored. Basic principles, as well as specific research questions and techniques, will be proposed to give students a foundation for analysis of current issues involving environmental systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7314. Geography of Resource Development.**

This course will provide a detailed and in-depth analysis of theories, policies, and practices regarding resource development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7316. Remote Sensing and the Environment.**

A detailed examination and implementation of sophisticated approaches for processing satellite digital images with emphasis on environmental applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7318. GIS and Environmental Geography.**

This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7330. Geography of Natural Hazards.**

This seminar examines the interdisciplinary nature of natural hazards research, the evolution of theories and thought in natural hazards, the geophysical causes of natural hazards, human impact and response to natural disasters, and issues and challenges in the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7331. Geography of the Hazards of Technology.**

This research seminar focuses on the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. Special attention will be paid to the theoretical and conceptual understandings of hazards among both professionals and the public to evaluate how these views affect policies, choices, behaviors, and impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7334. Geographic Aspects of Water.**

This seminar is a critical analysis of developmental and current literature that define water's critical role in determining the physical and cultural characteristics of the earth. Principal focus will be placed on water's role on land use and as a critical resource

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7342. Theories and Methods in Geographic Education.**

This seminar is a critical analysis of previous and current literature concerning problems in pedagogy, philosophy, learning theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7344. Seminar in Geographic Curriculum.**

The seminar will be a survey and discussion of major curricula in geographic education. Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7346. Standards and Assessment in Geography.**

An introduction to assessment procedures in geography education is central to the course. Analysis of national standards in geography and how they have affected geographic learning in grades K-12 will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7348. Ethnic Geography.**

This course will engage student in the in-depth critical analysis of the theories and methods of ethnic geography. The students will conduct careful research on a topic in ethnic geography. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter



**GEO 7349. Population Geography.**

An in-depth study of the growth, movement, and spatial distribution of human populations is the central theme. Students will read and discuss professional articles that stress both theory and analytical techniques. Topics will include population growth and the environment, rural and small town depopulation, spatial diffusion processes, migration trends and theories, urban population growth, and techniques such as multivariate analysis and population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7361. Advanced Geographic Information Systems.**

This course provides exposure to advanced topics in GIS, particularly to quantitative methods and techniques for developing and interpreting models of natural and anthropogenic phenomena over the geographical space

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7362. Geographic Visualization.**

This course focuses on the interdisciplinary field of Geographic Visualization. Students will review visualization research in computer graphics, human computer interaction, GIScience, and cartography and relate the research approaches to useful and usable geographic visualizations. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7364. Geocomputation.**

Geocomputation reviews and analyzes concepts of computational modeling in Geography. The course will include modeling theory and advanced topics such as parallel processing, neural networks, cellular automata, scientific visualization, and fuzzy modeling. Students will practice model development, specifically spatially explicit simulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7365. Theoretical Cartography.**

This course focuses on theoretical developments in cartography, and in particular looks at the role of maps and other graphic devices as tools for the discovery, analysis, and communication of geographical knowledge. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7366. Advanced Topics in Remote Sensing.**

The course focuses on advanced topics including the theoretical basis, mathematical foundations, and current research frontiers in remote sensing. Prerequisite: GEO 5415 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7370. Advanced Seminar in Environmental Geography.**

This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7371. Advanced Seminar in Geographic Education.**

This research seminar analyzes literature and research into recent trends in geographic education. Emphasis will be on new developments in curriculum, content, and teaching methodologies. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7372. Seminar in Geographic Information Science.**

This course deals with advanced and current research issues in Geographic Information Science. Based on this objective, the course aims at educating doctoral students to conduct research in Geographic Information Science as well as develop innovative applications of Geographic Information Science. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7390. Independent Study.**

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 7393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393C. Managing Urbanization.**

This course examines survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393D. International Migration.**

This course provides a survey of geographic and social science research conducted across various topics of international migration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393E. Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulation in land management, and the human-environment impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393F. Gender and Development.**

This course is a survey of geographic and social science research conducted across various topics of gender studies and international development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393G. Political Geography.**

This course is a survey of geographic and social science research conducted across various topics of political geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393H. Urban Environment.**

This course explores scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on the myriad ways in which human-environment interaction influences, and is influenced by, urban geography and the urban experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393I. Contemporary Topics in Geography Education.**

This course will be a survey of recent initiatives in geography education. This course will focus on areas such as research, assessment, and the development and use of instructional materials in relation to the National Science Foundation funded "Road Map for 21st Century Geography Education"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393J. Soil and Society.**

This course explores the importance of soil resources for environmental and socioeconomic sustainability. Soil science will be introduced, but the majority of the course will focus on soil's value to societies. Specific topics that will be explored include soil geography, historical abuses of soil resources, and current conservation efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393K. Biogeomorphology.**

This course will examine the ways in which plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms, and geological factors affect spatial distributions of animals and plants. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393L. Lidar.**

This course is an introduction to Light Detection and Ranging (lidar) systems for mapping and analysis. Students will learn to successfully apply knowledge of lidar sensors and technology for a variety of geographic information science applications. Students must have prior knowledge and experience with GIS analysis and mapping tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393M. Global Climate Change.**

This course examines various implications of global climate change, including impacts on science, politics, and society. Emphasis will be placed on anthropogenic influences across the 20th and 21st centuries, contemporary mitigation options, and future adaptation strategies amidst a complex and dynamic climate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393N. Rivers and Society.**

This course examines river system processes and how they are influenced by human activities. We will discuss the principles and practices of large-scale river basin management with an emphasis on the different perspectives and motivations driving different management goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393O. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7399A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7415. Geographic Applications of Remote Sensing.**

Students will focus on geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7417. Geographic Information Systems.**

Course is concerned with the analysis of interpretation of maps stored in digital form. Students are introduced to the concepts involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7418. Technical Foundations and Methods in Geographic Information Science.**

This course is concerned with the analysis and interpretation of maps stored in digital form. It will cover a variety of topics of interest to those seeking more in-depth knowledge of GIS and ancillary topics such as spatial statistics. The course provides an in-depth understanding of spatial analysis and modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7447. Spatial Graphics in Geographic Education.**

This course examines traditional and innovative geoinformation and geovisualization technologies and their relationship to spatial thinking and the teaching and learning of geography. The course reviews academic literature, research methods, and teaching methodologies related to spatial graphics in geographic education. The lab portion provides geovisualization design skills for geographic education

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7599A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 7699C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 7999A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 7999B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 7999C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Doctor of Philosophy (Ph.D.), Major in Geography

### Ph.D. Program

The course curriculum for the doctoral degree is designed to provide depth and breadth of knowledge in geographic theory and research methods. To be admitted to the geography doctoral program, a student must have completed a master's degree in geography or in a related discipline.

Each doctoral student will have her/his program tailored to meet the academic goals agreed upon in consultation with the Ph.D. research

advisor, with the approval of the graduate program coordinator, the department chair, and the dean of The Graduate College. All programs will include the necessary core, skills, specialization, and internal and external elective courses.

## Educational Goal

The educational goal of the program is to provide a Ph.D. in geography through which students will be educated in the process of geographic research, the development of new knowledge, and the application of this research and knowledge to solve problems with spatial dimensions.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/envgeo.html>.

## Financial Assistance

Graduate assistantships and scholarships are available to qualified candidates. Please contact the graduate staff advisor in the Department of Geography for more information about assistantships. The office of The Graduate College can provide further information regarding scholarships.

## Degree Requirements

### Degree Audit

In the first term that a student enrolls for doctoral study, the student should confer with their graduate advisor and prepare a degree audit for their program. Doctoral degree audits are tailored with the individual student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

### Course Work Requirements

#### Required Core Courses

(Core courses are prerequisites to other research courses).

GEO 7300	Advanced Geographic Research Design	3
GEO 7301	Advanced Quantitative Methods in Geography	3
GEO 7302	Nature and Philosophy of Geography	3

#### Skill Courses

Select 4 hours from the following:		4
GEO 7415	Geographic Applications of Remote Sensing	
GEO 7417	Geographic Information Systems	
GEO 7430	Field Methods	

#### Electives

Select 18 hours from 7000 level Geography courses. 18

#### Dissertation Research and Writing <sup>1</sup>

Select 15 hours from the following:		15
GEO 7199A	Dissertation	
GEO 7299A	Dissertation	
GEO 7399A	Dissertation	
GEO 7599A	Dissertation	
GEO 7699A	Dissertation <sup>1</sup>	
GEO 7999A	Dissertation <sup>1</sup>	



<sup>1</sup> The student must ensure that he or she enrolls in a combination of dissertation courses that equals 15 hours (i.e., 7399X, 7699X, 7699X; or 7699X and 7999X; etc.) in order to meet the minimum dissertation credit hour requirement.

**Total Program Hours: 46**

## Advancement to Candidacy

### Applications for Advancement to Candidacy

The student will need to download the Application for Advancement to Candidacy form from The Graduate College website. The student will need to complete the form and return it to their department, who will then submit it to The Graduate College for approval.

### Advancement to Candidacy Time Limit

Doctoral students will need to be advanced to candidacy within four years of initiating Ph.D. course work. A student will need to indicate their intent to advance to candidacy during the term in which the student will complete the 31 hours of required course work.

No credit will be applied toward a student's doctoral degree for course work completed more than four years before the date on which the student is to advance to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the student's Ph.D. advisor and graduate coordinator who, in turn, submits a recommendation to the dean of The Graduate College.

### Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below "B" on any graduate course work may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College at least ten days before the approval for advancement to candidacy.

### Semester Hour Requirements

The student must complete 31 semester hours of graduate course work to meet the minimum requirements for advancement to candidacy. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

### Advancement to Candidacy Comprehensive Examination

All applicants for advancement to candidacy for the doctoral degree must pass a comprehensive examination. The examination procedure may be obtained from the graduate staff advisor. Both prevailing expectations in the field and the actual courses taken by the candidate will determine the subject matter of the examination. This examination may not be taken until all required course work has been completed. The student may take the candidacy comprehensive examination without being enrolled in course work provided they have not been enrolled in dissertation course(s).

Arrangements for the examination will be made with the student's Ph.D. advisor. The results of the "Advancement to Candidacy Comprehensive Examination" must be filed in the office of The Graduate College before final approval to advance to candidacy is given by the dean of The

Graduate College. The department is responsible for submitting the report to the office of The Graduate College.

### Dissertation Proposal

The dissertation proposal must be approved by the dean of The Graduate College and successfully defended in front of the dissertation committee before a student can advance to candidacy. Information about the dissertation procedures can be found in the "Dissertation Research and Writing" section of this catalog.

### Recommendation for Advancement to Candidacy

The geography graduate committee recommends the applicant for advancement to candidacy to the chair of the Department of Geography and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been completed.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of Kate L. Turabian's *A Manual for Writers* or the *Annals of the Association of American Geographers*.

## Dissertation Enrollment Requirements

### Enrollment

After being admitted to candidacy, students must be continuously enrolled each term for dissertation hours. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for that term. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

### Hours

Students must complete a minimum of 15 semester hours of dissertation research and writing credit.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Dissertation Time Limit

Students are expected to complete the dissertation within three years of advancement to candidacy. The geography graduate committee will review the student's progress annually.

## Ph.D. Advisory Committee

The Ph.D. advisory committee must be formed to oversee the research and writing of the dissertation. The Ph.D. advisory committee will include a Ph.D. advisor and a minimum of three additional committee members (two of whom must be from the Department of Geography and one from outside the department). The members must be chosen from qualified Ph.D. faculty. The Ph.D. advisor and the advisory committee will be selected in consultation with the student and through mutual agreement with committee members. The Ph.D. advisor will chair the dissertation committee and must be from the major department. The



advisor and advisory committee must be approved by the graduate program coordinator, the department chair, as listed on the "Dissertation Committee Request" form and submitted to the dean of The Graduate College for final approval.

## Committee Changes

Any changes to the advisory committee must be submitted for approval to the advisory committee chair, the graduate coordinator, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the final oral comprehensive examination. The "Dissertation Advisor/Committee Member Change Request" form may be obtained from The Graduate College website.

## Dissertation Proposal

Students must submit the dissertation proposal and one copy of the official "Dissertation Proposal" form to their dissertation advisor. After obtaining **original** committee members' signatures and the department chair's signature, the student must submit the dissertation proposal and the form to the dean of The Graduate College for approval before proceeding with research on the dissertation. The proposal form may be obtained from The Graduate College website.

## Defense of the Dissertation Proposal

Students must defend the dissertation proposal in an oral examination with the Ph.D. advisory committee. The examination will address the proposed dissertation topic (problem definition and scope), research method, and relevant literature. The advisory committee must sign the "Defense of the Dissertation Proposal" form and then submit it for the signature of the department chair. The original must be sent to the office of The Graduate College.

## Final Oral Comprehensive Examination

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. To schedule the final oral examination, the student must apply to their Ph.D. advisor the term that they complete the dissertation. A completed "Doctoral Comprehensive Examination Report" form must be submitted to the dean of The Graduate College.

## Approval and Submission of the Dissertation and Abstract

The approval of the dissertation requires positive votes from the Ph.D. advisor and from a majority of the members of the Ph.D. advisory committee. One copy of the dissertation and the signed "Thesis/Dissertation Committee Approval" form must be submitted to the dean of The Graduate College for final approval once the committee has approved the dissertation. Refer to the *Graduate College Guide to Preparing and Submitting a Thesis/Dissertation* (available on The Graduate College website) for specific submission guidelines.

Doctoral level courses in Geography: GEO

## Courses Offered Geography (GEO)

### GEO 7150. Practicum in Teaching Geography.

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### GEO 7190. Independent Study.

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### GEO 7199A. Dissertation.

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7199B. Dissertation.

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7199C. Dissertation.

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 7250. Practicum in Teaching Geography.

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**GEO 7290. Independent Study.**

This course is designed to provide a student with credit while conducting independent research in consultation with his or her research advisor.

Repeatable once for additional credit with a different topic

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7299A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7300. Advanced Geographic Research Design.**

The purpose of this course is to develop an appreciation for the process of research as practiced by contemporary professional geographers.

Topics covered include formulating research problems, reviewing and critiquing published literature, developing and executing a research design, and completing a research project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7301. Advanced Quantitative Methods in Geography.**

How to mathematically and statistically model geographic problems is the focus of this course. The application of multivariate statistical techniques to geographic problems and the problems that spatial data create in the application of statistical and other quantitative techniques are central issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7302. Nature and Philosophy of Geography.**

This course is a critical analysis of the historical development of geographic thought: its roots, its present status, and future directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7305. Historical Geography of the American Environment.**

This course examines the spatial evolution of environmental problems in the United States using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental problems in the context of urbanization and industrialism. The course will expose students to the most significant work by geographers in this area to date, and to the historical development of environmental geographic analysis in the U.S

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7308. Advanced Regional Field Studies.**

Advanced study of geographic phenomena during field excursions to a particular site or region. Course includes preparation of site inventory, site guides, and on-site presentations. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7313. Environmental Systems.**

Theories and concepts involved in environmental systems will be examined. Tools and research issues relevant to their analysis will also be explored. Basic principles, as well as specific research questions and techniques, will be proposed to give students a foundation for analysis of current issues involving environmental systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7314. Geography of Resource Development.**

This course will provide a detailed and in-depth analysis of theories, policies, and practices regarding resource development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7316. Remote Sensing and the Environment.**

A detailed examination and implementation of sophisticated approaches for processing satellite digital images with emphasis on environmental applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7318. GIS and Environmental Geography.**

This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7330. Geography of Natural Hazards.**

This seminar examines the interdisciplinary nature of natural hazards research, the evolution of theories and thought in natural hazards, the geophysical causes of natural hazards, human impact and response to natural disasters, and issues and challenges in the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7331. Geography of the Hazards of Technology.**

This research seminar focuses on the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. Special attention will be paid to the theoretical and conceptual understandings of hazards among both professionals and the public to evaluate how these views affect policies, choices, behaviors, and impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7334. Geographic Aspects of Water.**

This seminar is a critical analysis of developmental and current literature that define water's critical role in determining the physical and cultural characteristics of the earth. Principal focus will be placed on water's role on land use and as a critical resource

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7342. Theories and Methods in Geographic Education.**

This seminar is a critical analysis of previous and current literature concerning problems in pedagogy, philosophy, learning theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7344. Seminar in Geographic Curriculum.**

The seminar will be a survey and discussion of major curricula in geographic education. Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7346. Standards and Assessment in Geography.**

An introduction to assessment procedures in geography education is central to the course. Analysis of national standards in geography and how they have affected geographic learning in grades K-12 will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7348. Ethnic Geography.**

This course will engage student in the in-depth critical analysis of the theories and methods of ethnic geography. The students will conduct careful research on a topic in ethnic geography. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 7349. Population Geography.**

An in-depth study of the growth, movement, and spatial distribution of human populations is the central theme. Students will read and discuss professional articles that stress both theory and analytical techniques. Topics will include population growth and the environment, rural and small town depopulation, spatial diffusion processes, migration trends and theories, urban population growth, and techniques such as multivariate analysis and population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7361. Advanced Geographic Information Systems.**

This course provides exposure to advanced topics in GIS, particularly to quantitative methods and techniques for developing and interpreting models of natural and anthropogenic phenomena over the geographical space

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7362. Geographic Visualization.**

This course focuses on the interdisciplinary field of Geographic Visualization. Students will review visualization research in computer graphics, human computer interaction, GIScience, and cartography and relate the research approaches to useful and usable geographic visualizations. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7364. Geocomputation.**

Geocomputation reviews and analyzes concepts of computational modeling in Geography. The course will include modeling theory and advanced topics such as parallel processing, neural networks, cellular automata, scientific visualization, and fuzzy modeling. Students will practice model development, specifically spatially explicit simulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7365. Theoretical Cartography.**

This course focuses on theoretical developments in cartography, and in particular looks at the role of maps and other graphic devices as tools for the discovery, analysis, and communication of geographical knowledge.

Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7366. Advanced Topics in Remote Sensing.**

The course focuses on advanced topics including the theoretical basis, mathematical foundations, and current research frontiers in remote sensing. Prerequisite: GEO 5415 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7370. Advanced Seminar in Environmental Geography.**

This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7371. Advanced Seminar in Geographic Education.**

This research seminar analyzes literature and research into recent trends in geographic education. Emphasis will be on new developments in curriculum, content, and teaching methodologies. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7372. Seminar in Geographic Information Science.**

This course deals with advanced and current research issues in Geographic Information Science. Based on this objective, the course aims at educating doctoral students to conduct research in Geographic Information Science as well as develop innovative applications of Geographic Information Science. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7390. Independent Study.**

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 7393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393C. Managing Urbanization.**

This course examines survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393D. International Migration.**

This course provides a survey of geographic and social science research conducted across various topics of international migration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393E. Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulation in land management, and the human-environment impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393F. Gender and Development.**

This course is a survey of geographic and social science research conducted across various topics of gender studies and international development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393G. Political Geography.**

This course is a survey of geographic and social science research conducted across various topics of political geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393H. Urban Environment.**

This course explores scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on the myriad ways in which human-environment interaction influences, and is influenced by, urban geography and the urban experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393I. Contemporary Topics in Geography Education.**

This course will be a survey of recent initiatives in geography education. This course will focus on areas such as research, assessment, and the development and use of instructional materials in relation to the National Science Foundation funded "Road Map for 21st Century Geography Education"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393J. Soil and Society.**

This course explores the importance of soil resources for environmental and socioeconomic sustainability. Soil science will be introduced, but the majority of the course will focus on soil's value to societies. Specific topics that will be explored include soil geography, historical abuses of soil resources, and current conservation efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393K. Biogeomorphology.**

This course will examine the ways in which plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms, and geological factors affect spatial distributions of animals and plants. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393L. Lidar.**

This course is an introduction to Light Detection and Ranging (lidar) systems for mapping and analysis. Students will learn to successfully apply knowledge of lidar sensors and technology for a variety of geographic information science applications. Students must have prior knowledge and experience with GIS analysis and mapping tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393M. Global Climate Change.**

This course examines various implications of global climate change, including impacts on science, politics, and society. Emphasis will be placed on anthropogenic influences across the 20th and 21st centuries, contemporary mitigation options, and future adaptation strategies amidst a complex and dynamic climate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393N. Rivers and Society.**

This course examines river system processes and how they are influenced by human activities. We will discuss the principles and practices of large-scale river basin management with an emphasis on the different perspectives and motivations driving different management goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393O. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs.

Prerequisite: GEO 5418 or the equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7399A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7415. Geographic Applications of Remote Sensing.**

Students will focus on geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7417. Geographic Information Systems.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to the concepts involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7418. Technical Foundations and Methods in Geographic Information Science.**

This course is concerned with the analysis and interpretation of maps stored in digital form. It will cover a variety of topics of interest to those seeking more in-depth knowledge of GIS and ancillary topics such as spatial statistics. The course provides an in-depth understanding of spatial analysis and modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**GEO 7447. Spatial Graphics in Geographic Education.**

This course examines traditional and innovative geoinformation and geovisualization technologies and their relationship to spatial thinking and the teaching and learning of geography. The course reviews academic literature, research methods, and teaching methodologies related to spatial graphics in geographic education. The lab portion provides geovisualization design skills for geographic education

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7599A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Applied Geography (M.A.Geo.), Major in Geographic Information Science

### Major Program

The master of applied geography (M.A.Geo.) degree program is designed to prepare geographers to use their skills and background knowledge to solve real-world problems with geographic dimensions. Applied geography includes such sub-fields as environmental management, geographic education, GIS, cartography, land use planning, location analysis, land management, transportation systems planning, applied physical geography, geographic aspects of environmental law, and spatial modeling.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/geo.html>.

## Financial Assistance

Graduate assistantships are available to qualified candidates. Please contact the graduate program coordinator in the Department of Geography for more information about financial assistance and the degree programs. For scholarship information, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/> and choose *Financing Your Graduate Education* from the Prospective Students menu.

## Degree Requirements

The Department of Geography offers a master of applied geography (M.A.Geo.) degree that requires 33 semester hours. All candidates must complete a required core and six hours of graduate electives in geography. Students are allowed to take up to six hours of those electives from any discipline outside the department. The remaining 15 hours of the degree focus on the geographic information science specialization. In summary, the M.A.Geo. requires:

Core Course Work	12
Specialization Course Work	15
Elective Course Work	6
Comprehensive Examination	
<b>Total Hours</b>	<b>33</b>

## Course Work Requirements

### Core Courses

GEO 5300	Applied Research Design and Techniques	3
GEO 5301	Multivariate Quantitative Methods	3
GEO 5309	Geographical Analysis	3
GEO 5335	Directed Research	3
<b>Total Hours</b>		<b>12</b>

### Specialization Courses

#### Geographic Information Science Courses

Choose 12 hours from the following:	12
GEO 5408	Web Mapping
GEO 5415	Geographic Applications of Remote Sensing
GEO 5418	Geographic Information Systems I
GEO 5419	Geographic Information Systems II
Advisor-approved GEO Elective	3
<b>Total Hours</b>	<b>15</b>

### Elective Courses

Six hours of electives in geography or from outside the department 6

Master's level courses in Geography: GEO

## Courses Offered

### Geography (GEO)

#### GEO 5150. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### GEO 5190. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit. Enrollment requires consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### GEO 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### GEO 5250. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### GEO 5290. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for total of six semester hours of credit. Enrollment requires consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### GEO 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### GEO 5300. Applied Research Design and Techniques.

Students will be introduced to appropriate research methods for applied geographers. Emphasis will be placed on the scientific method, productive library research, data collection and analysis, fieldwork, effective writing, and the nature of graphic representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5301. Multivariate Quantitative Methods.**

The use of multivariate descriptive and inferential statistics as applied to geographic data and problems, beginning with the general linear model and including topics such as multiple regression, principal components analysis, discriminant analysis, and clustering algorithms. Prerequisite: GEO 3301 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5308. Regional Field Studies.**

Study of geographic phenomena during field excursions to a particular site or region. Students will study the physical and/or cultural environments through off-campus field experience. Students will research, analyze, and report on major regional geographic features. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5309. Geographical Analysis.**

A survey of typical spatial problems of interest to geographers, with emphasis on current research and application being undertaken by the faculty in the Department of Geography. Topics include environmental geography, geographic education, land use and regional development, and cartographic representation and geographic information theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5312. Managing Urbanization.**

Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5313. Environmental Management.**

An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5314. Geographic Elements of Environmental Law.**

A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5315. Advanced Regional Studies.**

Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5316. Applied Physical Geography.**

This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5317. Seminar in Applied Human Geography.**

A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5318. Environment Problems of the U.S.-Mexico Border.**

This course serves as an in-depth introduction to the physical, social, and environmental landscapes of the region of the U.S.-Mexico Border. The course applies an interdisciplinary perspective to geographic understanding of the environmental and health-related issues experienced by residents of the borderlands. Special attention is given to management and planning solutions to the region's problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5319. Seminar in Nature and Heritage Tourism.**

This seminar focuses on the special geographic issues of nature and heritage tourism. Particular emphasis is placed on sites and activities, costs and benefits, commoditization and authenticity, resource protection, and substantive learning content of nature and heritage tourism activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5322. Interpretive Environmental Geography.**

Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5323. Location Analysis.**

Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of public parks, wildlife refuges, protected areas, non-governmental preserves and historic sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5329. Historical Geography of the Environment.**

This course will introduce students to ideas, concepts, and literature in historical geography of the environment. It will explore methods used to document past environments and examine environmental changes, and it will analyze the distinctions between historical geography and related fields of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5330. Geography of Natural Hazards.**

There are five areas of hazards that this course covers: (1) the interdisciplinary nature of natural hazards with emphasis on the role of geography and planning; (2) the geophysical causes of natural hazards; (3) human impact and response to natural disasters; (4) planning and management of hazards; and (5) issues and challenges facing the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5331. Geography of the Hazards of Technology.**

An investigation of the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. This course will focus on the study of spatial problems associated with technologies and the application of research to real-world management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5332. Environmental Geography of the Coastal Zone.**

Investigation of the physical geographic factors associated with the coastal zone and the role of human activities in problems and opportunities characteristic of this environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5334. Applied Water Resources.**

Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies.

Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5335. Directed Research.**

A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor.

Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5336. Transportation Systems.**

The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed.

Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5339. The Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulations in land management, and the human environmental impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5340. Practicum in Geographic Education.**

The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements that will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5341. Contemporary Issues in Geographic Education.**

This course examines current approaches to teaching geography in American education. Specific attention will be given to new classroom materials, curriculum reform efforts, and research developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5342. Seminar: Theory and Methods of Geographic Education.**

A critical analysis of previous and current literature concerning problems in pedagogy, philosophy, teaming theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5343. Computer Technology in Geographic Education.**

The course emphasizes the applications and theoretical implications of computers in geographic education, particularly the interplay between instructional technology and educational purpose and practice in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5344. Seminar in Geographic Curriculum.**

A survey and discussion of major curricula in geographic education.

Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand-alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5351. Regional Waste Management.**

The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5352. Air Quality Management.**

A geographic assessment of air quality management in the United States. Spatial distribution of the types, sources, and effects of air pollutants. Meteorology and physics of air pollution dispersion. Legislative and regulatory approaches to pollution management. National, state, regional, and local policy development procedures. Geographic methods for air pollution management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5353. Emergency Management.**

This course provides an overview of the most important aspects of emergency management at all geographic scales, with emphasis on local, regional, and federal levels. Best practices and proper methodologies are emphasized as well as ways that students can develop the skills and capabilities for a career in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5360. Seminar in Planning Problems.**

A critical and in-depth examination of several problem areas currently facing the planner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5370. Seminar in Applied Physical Geography.**

Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5380. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5390. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 5393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393C. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent, with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5395. Problems in Applied Geography.**

Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography. Repeatable for up to six hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in GEO 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**GEO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5408. Web Mapping.**

This course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5415. Geographic Applications of Remote Sensing.**

Students will focus on Geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5417. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a series of well-designed, professional grade maps (or an atlas) that students can use to build a cartographic portfolio. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5418. Geographic Information Systems I.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5419. Geographic Information Systems II.**

This course aims to develop more advanced GIS concepts and application issues, further spatial data manipulation and analysis skills, and provide hands-on experience with GIS hardware and software programs. The emphasis will be on practical application of skills to real world issues. Prerequisite: GEO 5418

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external clients(s).

Prerequisites: GEO 2426 or GEO 5418 or the equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5430. Field Methods.**

Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research.

Prerequisite: GEO 3301 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5680. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Applied Geography (M.A.Geo.), Major in Geography Major Program

The master of applied geography (M.A.Geo.) degree program is designed to prepare geographers to use their skills and background knowledge to solve real-world problems with geographic dimensions. Applied geography includes such sub-fields as environmental management, geographic education, GIS, cartography, land use planning, location analysis, land management, transportation systems planning, applied physical geography, geographic aspects of environmental law, and spatial modeling.

## Admission Policy

For information regarding application requirements and deadlines, please visit our website at <http://www.gradcollege.txstate.edu/geo.html>.

## Financial Assistance

Graduate assistantships are available to qualified candidates. Please contact the graduate program coordinator in the Department of Geography for more information about financial assistance and the

degree programs. For scholarship information, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/> and choose *Financing Your Graduate Education* from the Prospective Students menu.

## Degree Requirements

The Department of Geography offers a M.A.Geo. degree that requires 33 semester hours. All candidates must complete a required core and six hours of graduate electives in geography. Students are allowed to take up to six hours of those electives from any discipline outside the department. The remaining 15 hours of the degree are taken in one of the following specializations:

- General Geography
- Geographic Education

In summary, the M.A.Geo. requires:

Core Course Work	12
Specialization Course Work	15
Elective Course Work	6
Comprehensive Examination	
Total Hours	33

## Course Work Requirements

### Core Courses

GEO 5300	Applied Research Design and Techniques	3
GEO 5301	Multivariate Quantitative Methods	3
GEO 5309	Geographical Analysis	3
GEO 5335	Directed Research	3
Total Hours		12

### Specialization Courses

#### General Geography Option

Advisor-approved Electives in Geography	15
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#### Geographic Education Option

GEO 5340	Practicum in Geographic Education	3
Prescribed Electives (Choose 6 hours)		6
GEO 5308	Regional Field Studies	
GEO 5313	Environmental Management	
GEO 5315	Advanced Regional Studies	
GEO 5323	Location Analysis	
GEO 5341	Contemporary Issues in Geographic Education	
GEO 5342	Seminar: Theory and Methods of Geographic Education	
GEO 5343	Computer Technology in Geographic Education	
GEO 5344	Seminar in Geographic Curriculum	
GEO 5349	Population Geography	
GEO 5370	Seminar in Applied Physical Geography	
GEO 5395	Problems in Applied Geography	
Advisor-approved GEO Electives		6
Total Hours		15

### Elective Courses

Six hours of electives in geography or from outside the department	6
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Master's level courses in Geography: GEO

## Courses Offered Geography (GEO)

### GEO 5150. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### GEO 5190. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit. Enrollment requires consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### GEO 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 5250. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### GEO 5290. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for total of six semester hours of credit. Enrollment requires consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### GEO 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### GEO 5300. Applied Research Design and Techniques.

Students will be introduced to appropriate research methods for applied geographers. Emphasis will be placed on the scientific method, productive library research, data collection and analysis, fieldwork, effective writing, and the nature of graphic representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5301. Multivariate Quantitative Methods.**

The use of multivariate descriptive and inferential statistics as applied to geographic data and problems, beginning with the general linear model and including topics such as multiple regression, principal components analysis, discriminant analysis, and clustering algorithms. Prerequisite: GEO 3301 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5308. Regional Field Studies.**

Study of geographic phenomena during field excursions to a particular site or region. Students will study the physical and/or cultural environments through off-campus field experience. Students will research, analyze, and report on major regional geographic features. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5309. Geographical Analysis.**

A survey of typical spatial problems of interest to geographers, with emphasis on current research and application being undertaken by the faculty in the Department of Geography. Topics include environmental geography, geographic education, land use and regional development, and cartographic representation and geographic information theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5312. Managing Urbanization.**

Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5313. Environmental Management.**

An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5314. Geographic Elements of Environmental Law.**

A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5315. Advanced Regional Studies.**

Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5316. Applied Physical Geography.**

This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5317. Seminar in Applied Human Geography.**

A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5318. Environment Problems of the U.S.-Mexico Border.**

This course serves as an in-depth introduction to the physical, social, and environmental landscapes of the region of the U.S.-Mexico Border. The course applies an interdisciplinary perspective to geographic understanding of the environmental and health-related issues experienced by residents of the borderlands. Special attention is given to management and planning solutions to the region's problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5319. Seminar in Nature and Heritage Tourism.**

This seminar focuses on the special geographic issues of nature and heritage tourism. Particular emphasis is placed on sites and activities, costs and benefits, commoditization and authenticity, resource protection, and substantive learning content of nature and heritage tourism activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5322. Interpretive Environmental Geography.**

Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5323. Location Analysis.**

Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of public parks, wildlife refuges, protected areas, non-governmental preserves and historic sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5329. Historical Geography of the Environment.**

This course will introduce students to ideas, concepts, and literature in historical geography of the environment. It will explore methods used to document past environments and examine environmental changes, and it will analyze the distinctions between historical geography and related fields of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5330. Geography of Natural Hazards.**

There are five areas of hazards that this course covers: (1) the interdisciplinary nature of natural hazards with emphasis on the role of geography and planning; (2) the geophysical causes of natural hazards; (3) human impact and response to natural disasters; (4) planning and management of hazards; and (5) issues and challenges facing the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5331. Geography of the Hazards of Technology.**

An investigation of the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. This course will focus on the study of spatial problems associated with technologies and the application of research to real-world management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5332. Environmental Geography of the Coastal Zone.**

Investigation of the physical geographic factors associated with the coastal zone and the role of human activities in problems and opportunities characteristic of this environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5334. Applied Water Resources.**

Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies.

Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5335. Directed Research.**

A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor.

Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5336. Transportation Systems.**

The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed.

Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5339. The Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulations in land management, and the human environmental impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5340. Practicum in Geographic Education.**

The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements that will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5341. Contemporary Issues in Geographic Education.**

This course examines current approaches to teaching geography in American education. Specific attention will be given to new classroom materials, curriculum reform efforts, and research developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5342. Seminar: Theory and Methods of Geographic Education.**

A critical analysis of previous and current literature concerning problems in pedagogy, philosophy, teaming theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5343. Computer Technology in Geographic Education.**

The course emphasizes the applications and theoretical implications of computers in geographic education, particularly the interplay between instructional technology and educational purpose and practice in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5344. Seminar in Geographic Curriculum.**

A survey and discussion of major curricula in geographic education.

Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand-alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5351. Regional Waste Management.**

The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5352. Air Quality Management.**

A geographic assessment of air quality management in the United States. Spatial distribution of the types, sources, and effects of air pollutants. Meteorology and physics of air pollution dispersion. Legislative and regulatory approaches to pollution management. National, state, regional, and local policy development procedures. Geographic methods for air pollution management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5353. Emergency Management.**

This course provides an overview of the most important aspects of emergency management at all geographic scales, with emphasis on local, regional, and federal levels. Best practices and proper methodologies are emphasized as well as ways that students can develop the skills and capabilities for a career in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5360. Seminar in Planning Problems.**

A critical and in-depth examination of several problem areas currently facing the planner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5370. Seminar in Applied Physical Geography.**

Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5380. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5390. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 5393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393C. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent, with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5395. Problems in Applied Geography.**

Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography. Repeatable for up to six hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in GEO 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**GEO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5408. Web Mapping.**

This course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5415. Geographic Applications of Remote Sensing.**

Students will focus on Geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5417. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a series of well-designed, professional grade maps (or an atlas) that students can use to build a cartographic portfolio. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5418. Geographic Information Systems I.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5419. Geographic Information Systems II.**

This course aims to develop more advanced GIS concepts and application issues, further spatial data manipulation and analysis skills, and provide hands-on experience with GIS hardware and software programs. The emphasis will be on practical application of skills to real world issues. Prerequisite: GEO 5418

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external clients(s).

Prerequisites: GEO 2426 or GEO 5418 or the equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5430. Field Methods.**

Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research.

Prerequisite: GEO 3301 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5680. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Geography

### Major Program

The geography degree is designed to give highly qualified students exposure to geographic theory and research at the predoctoral level. Programmatic emphases include environmental geography, geographic education, geographic information science, and other specialty areas in geography represented by the current active research interests of the faculty.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/geo.html>.

### Financial Assistance

Graduate assistantships are available to qualified candidates. Please contact the graduate program coordinator in the Department of Geography for more information about financial assistance and the degree programs. For scholarship information, please visit The

Graduate College website at <http://www.gradcollege.txstate.edu/> and choose *Financing Your Graduate Education* from the Prospective Students menu.

## Course Work Requirements

The 30-hour curriculum includes:

### Required Courses

GEO 5301	Multivariate Quantitative Methods	3
GEO 5309	Geographical Analysis	3
GEO 7300	Advanced Geographic Research Design	3

### Geography Electives

Choose 15 hours of electives from the table below including a minimum 6 hours of 7000-level course work 15

### Thesis Courses

Choose a minimum 6 hours		6
GEO 5199B	Thesis	
GEO 5299B	Thesis	
GEO 5399A	Thesis	
GEO 5399B	Thesis	
GEO 5599B	Thesis	
GEO 5999B	Thesis	
Total Hours		30

### Geography Electives

GEO 5190	Independent Study	1
GEO 5290	Independent Study	2
GEO 5308	Regional Field Studies	3
GEO 5314	Geographic Elements of Environmental Law	3
GEO 5315	Advanced Regional Studies	3
GEO 5318	Environment Problems of the U.S.-Mexico Border	3
GEO 5319	Seminar in Nature and Heritage Tourism	3
GEO 5323	Location Analysis	3
GEO 5329	Historical Geography of the Environment	3
GEO 5332	Environmental Geography of the Coastal Zone	3
GEO 5336	Transportation Systems	3
GEO 5390	Independent Study	3
GEO 5395	Problems in Applied Geography	3
GEO 5415	Geographic Applications of Remote Sensing	4
GEO 5418	Geographic Information Systems I	4
GEO 5430	Field Methods	4
GEO 7305	Historical Geography of the American Environment	3
GEO 7313	Environmental Systems	3
GEO 7314	Geography of Resource Development	3
GEO 7316	Remote Sensing and the Environment	3
GEO 7318	GIS and Environmental Geography	3
GEO 7330	Geography of Natural Hazards	3
GEO 7331	Geography of the Hazards of Technology	3
GEO 7334	Geographic Aspects of Water	3
GEO 7342	Theories and Methods in Geographic Education	3
GEO 7344	Seminar in Geographic Curriculum	3
GEO 7346	Standards and Assessment in Geography	3
GEO 7348	Ethnic Geography	3

GEO 7349	Population Geography	3
GEO 7370	Advanced Seminar in Environmental Geography	3
GEO 7371	Advanced Seminar in Geographic Education	3

Most of the course work options for completion of the 15 hours of electives are those currently afforded to doctoral students. By taking these doctoral-level courses and interacting with doctoral students and core Ph.D. faculty, M.S. students will gain entry into the world of high-level academic and professional research in geography. Graduates of the programs may qualify for admission into the geography Ph.D. programs at Texas State or in doctoral programs in geography at other universities. Those who do not wish to seek doctorates may be qualified for research-oriented positions with public-sector agencies and private-sector firms and for teaching in community colleges.

**All students are also subject to the policies and procedures outlined in the departmental graduate student handbook available from the departmental graduate staff advisor.**

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources. Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Geography: GEO

## Courses Offered Geography (GEO)

### GEO 5150. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### GEO 5190. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit. Enrollment requires consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### GEO 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

### GEO 5250. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### GEO 5290. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for total of six semester hours of credit. Enrollment requires consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### GEO 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

### GEO 5300. Applied Research Design and Techniques.

Students will be introduced to appropriate research methods for applied geographers. Emphasis will be placed on the scientific method, productive library research, data collection and analysis, fieldwork, effective writing, and the nature of graphic representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 5301. Multivariate Quantitative Methods.**

The use of multivariate descriptive and inferential statistics as applied to geographic data and problems, beginning with the general linear model and including topics such as multiple regression, principal components analysis, discriminant analysis, and clustering algorithms. Prerequisite: GEO 3301 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5308. Regional Field Studies.**

Study of geographic phenomena during field excursions to a particular site or region. Students will study the physical and/or cultural environments through off-campus field experience. Students will research, analyze, and report on major regional geographic features. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5309. Geographical Analysis.**

A survey of typical spatial problems of interest to geographers, with emphasis on current research and application being undertaken by the faculty in the Department of Geography. Topics include environmental geography, geographic education, land use and regional development, and cartographic representation and geographic information theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5312. Managing Urbanization.**

Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5313. Environmental Management.**

An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5314. Geographic Elements of Environmental Law.**

A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5315. Advanced Regional Studies.**

Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5316. Applied Physical Geography.**

This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5317. Seminar in Applied Human Geography.**

A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5318. Environment Problems of the U.S.-Mexico Border.**

This course serves as an in-depth introduction to the physical, social, and environmental landscapes of the region of the U.S.-Mexico Border. The course applies an interdisciplinary perspective to geographic understanding of the environmental and health-related issues experienced by residents of the borderlands. Special attention is given to management and planning solutions to the region's problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5319. Seminar in Nature and Heritage Tourism.**

This seminar focuses on the special geographic issues of nature and heritage tourism. Particular emphasis is placed on sites and activities, costs and benefits, commoditization and authenticity, resource protection, and substantive learning content of nature and heritage tourism activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5322. Interpretive Environmental Geography.**

Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5323. Location Analysis.**

Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of public parks, wildlife refuges, protected areas, non-governmental preserves and historic sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5329. Historical Geography of the Environment.**

This course will introduce students to ideas, concepts, and literature in historical geography of the environment. It will explore methods used to document past environments and examine environmental changes, and it will analyze the distinctions between historical geography and related fields of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5330. Geography of Natural Hazards.**

There are five areas of hazards that this course covers: (1) the interdisciplinary nature of natural hazards with emphasis on the role of geography and planning; (2) the geophysical causes of natural hazards; (3) human impact and response to natural disasters; (4) planning and management of hazards; and (5) issues and challenges facing the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5331. Geography of the Hazards of Technology.**

An investigation of the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. This course will focus on the study of spatial problems associated with technologies and the application of research to real-world management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5332. Environmental Geography of the Coastal Zone.**

Investigation of the physical geographic factors associated with the coastal zone and the role of human activities in problems and opportunities characteristic of this environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5334. Applied Water Resources.**

Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies.

Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5335. Directed Research.**

A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor.

Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5336. Transportation Systems.**

The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed.

Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5339. The Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulations in land management, and the human environmental impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5340. Practicum in Geographic Education.**

The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements that will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5341. Contemporary Issues in Geographic Education.**

This course examines current approaches to teaching geography in American education. Specific attention will be given to new classroom materials, curriculum reform efforts, and research developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5342. Seminar: Theory and Methods of Geographic Education.**

A critical analysis of previous and current literature concerning problems in pedagogy, philosophy, teaming theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5343. Computer Technology in Geographic Education.**

The course emphasizes the applications and theoretical implications of computers in geographic education, particularly the interplay between instructional technology and educational purpose and practice in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5344. Seminar in Geographic Curriculum.**

A survey and discussion of major curricula in geographic education.

Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand-alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5351. Regional Waste Management.**

The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5352. Air Quality Management.**

A geographic assessment of air quality management in the United States. Spatial distribution of the types, sources, and effects of air pollutants. Meteorology and physics of air pollution dispersion. Legislative and regulatory approaches to pollution management. National, state, regional, and local policy development procedures. Geographic methods for air pollution management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5353. Emergency Management.**

This course provides an overview of the most important aspects of emergency management at all geographic scales, with emphasis on local, regional, and federal levels. Best practices and proper methodologies are emphasized as well as ways that students can develop the skills and capabilities for a career in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5360. Seminar in Planning Problems.**

A critical and in-depth examination of several problem areas currently facing the planner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5370. Seminar in Applied Physical Geography.**

Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5380. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5390. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 5393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393C. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent, with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5395. Problems in Applied Geography.**

Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography. Repeatable for up to six hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in GEO 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5408. Web Mapping.**

This course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5415. Geographic Applications of Remote Sensing.**

Students will focus on Geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5417. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a series of well-designed, professional grade maps (or an atlas) that students can use to build a cartographic portfolio. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5418. Geographic Information Systems I.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5419. Geographic Information Systems II.**

This course aims to develop more advanced GIS concepts and application issues, further spatial data manipulation and analysis skills, and provide hands-on experience with GIS hardware and software programs. The emphasis will be on practical application of skills to real world issues. Prerequisite: GEO 5418

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external clients(s).

Prerequisites: GEO 2426 or GEO 5418 or the equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5430. Field Methods.**

Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research.

Prerequisite: GEO 3301 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5680. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## **Master of Applied Geography (M.A.Geo.), Major in Geography Resource and Environmental Studies Major Program**

The master of applied geography (M.A.Geo.) degree program is designed to prepare geographers to use their skills and background knowledge to solve real-world problems with geographic dimensions. Applied geography includes such sub-fields as environmental management, geographic education, GIS, cartography, land use planning, location analysis, land management, transportation systems planning, applied physical geography, geographic aspects of environmental law, and spatial modeling.

### **Admission Policy**

For information regarding application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/geo.html>.

## Financial Assistance

Graduate assistantships are available to qualified candidates. Please contact the Graduate Program Coordinator, Department of Geography, for more information about financial assistance and the degree programs. For scholarship information, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/> and choose *Financing Your Graduate Education* from the Prospective Students menu.

## Degree Requirements

The Department of Geography offers a master of applied geography (M.A.Geo.) degree that requires 33 semester hours. All candidates must complete a required core and six hours of graduate electives in geography. Students are allowed to take up to three hours of those electives from any discipline outside the department. The remaining 15 hours of the degree focus on the geographic resource and environmental studies specialization. In summary, the M.A.Geo. requires:

Core Course Work	12
Specialization Course Work	15
Elective Course Work	6
Comprehensive Examination	
<b>Total Hours</b>	<b>33</b>

## Course Work Requirements

### Core Courses

GEO 5300	Applied Research Design and Techniques	3
GEO 5301	Multivariate Quantitative Methods	3
GEO 5309	Geographical Analysis	3
GEO 5335	Directed Research	3
<b>Total Hours</b>		<b>12</b>

### Specialization Courses

GEO 5313	Environmental Management	3
GEO 5314	Geographic Elements of Environmental Law	3

### Prescribed Geography Electives

Select nine hours from the following:		9
GEO 5312	Managing Urbanization	
GEO 5316	Applied Physical Geography	
GEO 5317	Seminar in Applied Human Geography	
GEO 5330	Geography of Natural Hazards	
GEO 5334	Applied Water Resources	
GEO 5336	Transportation Systems	
GEO 5339	The Geography of Land Management	
GEO 5351	Regional Waste Management	
GEO 5352	Air Quality Management	
GEO 5370	Seminar in Applied Physical Geography	
GEO 5390	Independent Study	
GEO 5418	Geographic Information Systems I	
GEO 5430	Field Methods	
<b>Total Hours</b>		<b>15</b>

### Elective Courses

Choose 6 hours of advisor-approved electives <sup>1</sup> 6

<sup>1</sup> For this major, a maximum 3 hours of elective credit can be taken outside the Department of Geography with advisor approval.

Master's level courses in Geography: GEO

## Courses Offered

### Geography (GEO)

#### GEO 5150. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis **1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### GEO 5190. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit. Enrollment requires consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### GEO 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

#### GEO 5250. Practicum in Teaching Geography.

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### GEO 5290. Independent Study.

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for total of six semester hours of credit. Enrollment requires consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### GEO 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 5300. Applied Research Design and Techniques.**

Students will be introduced to appropriate research methods for applied geographers. Emphasis will be placed on the scientific method, productive library research, data collection and analysis, fieldwork, effective writing, and the nature of graphic representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5301. Multivariate Quantitative Methods.**

The use of multivariate descriptive and inferential statistics as applied to geographic data and problems, beginning with the general linear model and including topics such as multiple regression, principal components analysis, discriminant analysis, and clustering algorithms. Prerequisite: GEO 3301 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5308. Regional Field Studies.**

Study of geographic phenomena during field excursions to a particular site or region. Students will study the physical and/or cultural environments through off-campus field experience. Students will research, analyze, and report on major regional geographic features.

Repeatable once for additional credit with a different site or region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5309. Geographical Analysis.**

A survey of typical spatial problems of interest to geographers, with emphasis on current research and application being undertaken by the faculty in the Department of Geography. Topics include environmental geography, geographic education, land use and regional development, and cartographic representation and geographic information theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5312. Managing Urbanization.**

Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5313. Environmental Management.**

An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5314. Geographic Elements of Environmental Law.**

A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5315. Advanced Regional Studies.**

Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5316. Applied Physical Geography.**

This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5317. Seminar in Applied Human Geography.**

A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5318. Environment Problems of the U.S.-Mexico Border.**

This course serves as an in-depth introduction to the physical, social, and environmental landscapes of the region of the U.S.-Mexico Border. The course applies an interdisciplinary perspective to geographic understanding of the environmental and health-related issues experienced by residents of the borderlands. Special attention is given to management and planning solutions to the region's problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5319. Seminar in Nature and Heritage Tourism.**

This seminar focuses on the special geographic issues of nature and heritage tourism. Particular emphasis is placed on sites and activities, costs and benefits, commoditization and authenticity, resource protection, and substantive learning content of nature and heritage tourism activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5322. Interpretive Environmental Geography.**

Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5323. Location Analysis.**

Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of public parks, wildlife refuges, protected areas, non-governmental preserves and historic sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5329. Historical Geography of the Environment.**

This course will introduce students to ideas, concepts, and literature in historical geography of the environment. It will explore methods used to document past environments and examine environmental changes, and it will analyze the distinctions between historical geography and related fields of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5330. Geography of Natural Hazards.**

There are five areas of hazards that this course covers: (1) the interdisciplinary nature of natural hazards with emphasis on the role of geography and planning; (2) the geophysical causes of natural hazards; (3) human impact and response to natural disasters; (4) planning and management of hazards; and (5) issues and challenges facing the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5331. Geography of the Hazards of Technology.**

An investigation of the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. This course will focus on the study of spatial problems associated with technologies and the application of research to real-world management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5332. Environmental Geography of the Coastal Zone.**

Investigation of the physical geographic factors associated with the coastal zone and the role of human activities in problems and opportunities characteristic of this environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5334. Applied Water Resources.**

Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies.

Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5335. Directed Research.**

A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor.

Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5336. Transportation Systems.**

The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed. Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5339. The Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulations in land management, and the human environmental impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5340. Practicum in Geographic Education.**

The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements that will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5341. Contemporary Issues in Geographic Education.**

This course examines current approaches to teaching geography in American education. Specific attention will be given to new classroom materials, curriculum reform efforts, and research developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5342. Seminar: Theory and Methods of Geographic Education.**

A critical analysis of previous and current literature concerning problems in pedagogy, philosophy, teaming theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5343. Computer Technology in Geographic Education.**

The course emphasizes the applications and theoretical implications of computers in geographic education, particularly the interplay between instructional technology and educational purpose and practice in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5344. Seminar in Geographic Curriculum.**

A survey and discussion of major curricula in geographic education.

Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand-alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5351. Regional Waste Management.**

The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5352. Air Quality Management.**

A geographic assessment of air quality management in the United States. Spatial distribution of the types, sources, and effects of air pollutants. Meteorology and physics of air pollution dispersion. Legislative and regulatory approaches to pollution management. National, state, regional, and local policy development procedures. Geographic methods for air pollution management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5353. Emergency Management.**

This course provides an overview of the most important aspects of emergency management at all geographic scales, with emphasis on local, regional, and federal levels. Best practices and proper methodologies are emphasized as well as ways that students can develop the skills and capabilities for a career in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5360. Seminar in Planning Problems.**

A critical and in-depth examination of several problem areas currently facing the planner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5370. Seminar in Applied Physical Geography.**

Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5380. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5390. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 5393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393C. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent, with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5395. Problems in Applied Geography.**

Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography. Repeatable for up to six hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in GEO 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 5408. Web Mapping.**

This course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher  
**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5415. Geographic Applications of Remote Sensing.**

Students will focus on Geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5417. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a series of well-designed, professional grade maps (or an atlas) that students can use to build a cartographic portfolio. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5418. Geographic Information Systems I.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5419. Geographic Information Systems II.**

This course aims to develop more advanced GIS concepts and application issues, further spatial data manipulation and analysis skills, and provide hands-on experience with GIS hardware and software programs. The emphasis will be on practical application of skills to real world issues. Prerequisite: GEO 5418

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external clients(s). Prerequisites: GEO 2426 or GEO 5418 or the equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5430. Field Methods.**

Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research. Prerequisite: GEO 3301 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**GEO 5680. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Geography

### Minor Requirements

The graduate minor in geography requires nine hours of advisor-approved electives.

## Department of History

Taylor-Murphy Building Room 202

T: 512.245.2142 F: 512.245.3043

<http://www.txstate.edu/history>

The teacher-scholars of the Department of History at Texas State are dedicated to studying, interpreting, teaching, and communicating the human past. Departmental historians understand teaching and scholarly research to be a single unified whole and the most important aspect of their professional activity. The department's principal teaching mission consists of two aspects: providing an introduction to the study of history as part of the liberal arts foundation required of all Texas State undergraduates and of offering a well-developed program of historical study to advanced undergraduate and graduate students, including those training to be secondary-level history and social studies teachers in the public schools and those preparing for careers in public history.

The Department of History is dedicated to building on its record of introducing students to the diversity of the world through course work, study abroad experiences and visiting scholars. A further departmental mission is scholarly research, as faculty members undertake significant research projects to advance historical knowledge and contribute to the constant reinterpretation of historical phenomena. They share their research with the national and international scholarly community through the presentation and publication of historical studies. Departmental members also engage the community and general public in numerous historical programs and activities to increase general interest in history and to broaden understanding of past human activity.

We support student teacher preparation for prospective secondary school teachers in the areas of history and social studies.

Successful graduates enter doctoral programs, or find jobs in the public and private sector. Our students have gone on for further study to universities across the country, from the University of California at Berkeley to the University of Michigan to the University of Massachusetts at Amherst. Other students have utilized their training in positions at Dell, General Motors, and many other major corporations. Public history students have earned appointments with national and regional governmental agencies while others have used their skills in secondary schools.

## Master of Arts (M.A.)

- Major in History (p. 1026)

## Master of Education (M.Ed.)

- Major in History (p. 1035)

## Minor

- History (p. 1043)

## Certificate

- Public History Studies (p. 1043)

# Master of Arts (M.A.), Major in History

## Major Program

The graduate program in history is designed to prepare students for careers in professional history (college teaching, research, or writing), public history, historic tourism, preservation, museums, consulting, public education (secondary teaching), and to provide a general liberal arts education for students desiring careers in business, journalism, law, and government service.

Individuals interested in a more detailed description of the graduate program in history should request a copy of the Graduate Student Handbook from the Department of History. Copies of the Graduate Student Handbook and other information may be obtained from the department's website at <http://www.txstate.edu/history>.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit our website at <http://www.gradcollege.txstate.edu/hist.html>.

## Financial Assistance

A limited number of assistantships and scholarships are available to qualified graduate students. Prospective students interested in applying for an assistantship should contact the graduate director in the Department of History. The Graduate College can provide further information about scholarships.

## Degree Requirements

The Department of History offers the master of arts (M.A.) degree with or without thesis and with or without a specialization in public history. There are two options for earning the M.A. with a major in history. The first option requires at least 33 hours of graduate history courses, including thesis, or 27 hours of graduate history courses, including thesis, plus six graduate hours in a cognate field. The second option, which does not include thesis, requires 36 hours of graduate work in history, or 30 hours of graduate history courses and six graduate hours in a cognate field. Students with a specialization in public history can choose the 36-hour non-thesis option, which may include a minor, or a 39-hour thesis option, which may not include a minor.

A grade of "B" or better must be earned in all history course work counting towards either degree. All candidates in history must take and pass a comprehensive examination. All non-public history M.A. candidates, except those writing a thesis, also must have successfully completed HIST 5398 General Research Seminar. Students who choose the 33-hour M.A. option must also successfully defend a thesis. Public history candidates must successfully complete an internship.

## Course Work Requirements

### Thesis Options

#### Required Courses

HIST 5360	American Historiography	3
or HIST 5361	General Historiography	
HIST 5398	General Research Seminar	3

#### Elective/Cognate Course Work

Choose one option from the following: 21

#### Option 1

21 hours of advisor-approved electives

#### Option 2

15 hours of advisor-approved electives

6 hours in a cognate minor field

#### Thesis Courses

Choose a minimum 6 hours		6
HIST 5199B	Thesis	
HIST 5299B	Thesis	
HIST 5399A	Thesis	
HIST 5399B	Thesis	
HIST 5599B	Thesis	
HIST 5999B	Thesis	

Total Hours 33

### Non-thesis Options

#### Required Courses

HIST 5360	American Historiography	3
or HIST 5361	General Historiography	
HIST 5398	General Research Seminar	3

**Elective/Cognate Course Work**

Choose one option from the following:	30
<b>Option 1</b>	
30 hours of advisor-approved electives	
<b>Option 2</b>	
24 hours of advisor-approved electives	
6 hours in a cognate minor field	
<b>Total Hours</b>	<b>36</b>

**Public History Concentration Options****Required Courses**

HIST 5371	The Practice of Public History	6
& HIST 5374	and Public History Internship	
HIST 5360	American Historiography	3

**Public History Electives**

Choose 12 hours from the following:	12
HIST 5345D	Oral History: Theory & Practice
HIST 5372	The Practice of Museum Studies and Material Culture
HIST 5373	The Practice of Historic Preservation
HIST 5375A	Documentary Film
HIST 5375B	Archival Management
HIST 5375C	Cultural Resource Management
HIST 5375D	Material Culture in America
HIST 5376	Local and Community History
HIST 5377	Public History Project

**Elective/Cognate/Thesis Course Work**

Choose one option from the following:	15-18
<b>Option A</b>	
15 hours of advisor-approved electives	
<b>Option B</b>	
9 hours of advisor-approved electives	
6 hours in a cognate minor field	
<b>Option C</b>	
12 hours of advisor-approved electives	
6 hours of thesis courses from the following:	
HIST 5199B	Thesis
HIST 5299B	Thesis
HIST 5399A	Thesis
HIST 5399B	Thesis
HIST 5599B	Thesis
HIST 5999B	Thesis
<b>Total Hours</b>	<b>36-39</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

**Thesis Proposal**

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

**Thesis Committee**

The thesis committee must be composed of a minimum of three approved graduate faculty members.

**Thesis Enrollment and Credit**

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

**Fee Reduction**

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer



to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in History: HIST

## Courses Offered

### History (HIST)

#### HIST 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### HIST 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### HIST 5300. Foundation Studies in History.

Required as a condition of admission to the M.A. History program for otherwise qualified candidates lacking sufficient History background hours. In this course, students demonstrate necessary competency in History skills and methods to succeed in the program. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### HIST 5301. Instructional Methods Practicum for Graduate Assistants.

Required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### HIST 5307. Medieval European History: Contemporary Trends in Medieval Historiography.

This course introduces graduate students to the craft of the medieval historian, with emphasis on major contemporary shifts in American historiography of the European Middle Ages

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### HIST 5308E. Latin Literature and Roman History and Society.

A seminar based on the study of the most important Latin literary works from the 2nd century B.C. to the 2nd century A.D. No knowledge of Latin is necessary to take this seminar

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5308F. Roman History and Civilization: The "Golden Age" of Rome.

The history of Roman civilization (political, diplomatic, economic, social, cultural, etc.) from Augustus to Marcus Aurelius (27 B.C. – A.D. 180). The main focus will be to explain what made possible this exceptional period and why it lasted so long

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5308G. Warfare in the Ancient World.

A seminar on the nature, development, and historical significance of war in the Western World, from the Trojan War (end of the 13th century BC) to the fall of the Western Roman Empire and the establishment of Germanic kingdoms (5th century AD)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5309A. Interpreting the Eighteenth Century.

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5309B. The French Revolution.

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5309D. Early Modern Spain.**

A seminar based on selected topics in political, social, intellectual, and economic history of Spain from 1450 to 1815

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5310. Modern European History.**

A seminar based on selected topics in the history of Europe from 1815 to the present. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5313. Early American History.**

A seminar based on selected topics in the Colonial Revolutionary and Early National periods of the United States history. May be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5314. Ethnohistory.**

This seminar seeks to familiarize students with current questions, methods, theories, and debates in ethnohistory, a multidisciplinary approach to the history of indigenous peoples. Materials studied will include both classic and recent ethnohistorical works

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5315A. American Sexualities.**

This course addresses the history of sexualities in the United States from the colonial era to present to shed light on the ways that sexuality has shaped social life, establish conventions, and created spaces to defy norms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5315B. Queer History: GLBT Histories in the United States.**

This course examines the histories of different sexual minorities in the United States from the colonial era to present, though the majority of the course focuses on the twentieth century, to explore the rise of the modern lesbian, gay, bisexual, and transgender identities, politics, and cultures in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316A. Women's Rights in Comparative Perspective.**

This course considers national, transnational, and global development of campaigns for women's rights since the nineteenth century. The course examines how women agitated for their rights in different cultural and historical moments. Students will gain familiarity with comparative feminisms, the gendered nature of liberal movements, and women's activism in national and international arenas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316B. Women and Empire.**

From 1492 until World War II the globe was dominated by imperialism. This course considers the ways that women, in the metropolises of Europe and throughout colonial settings, found their lives shaped by empire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5318A. Eighteenth Century England.**

A seminar based on selected topics in political, social, intellectual, and economic history of England from 1688 to 1815. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318C. The Age of the Stuarts.**

A study of selected topics in English history between 1603 and 1714

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318D. European Imperialism.**

Europe's penchant for building empires helped to greatly enhance their influence (economic, political, and cultural) from the fifteenth to the twentieth century. The course will review the major European empires and discuss the extent of their influence during this 500 year span

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5319. The Age of the Tudors.**

This readings-based course emphasizes differing interpretations of selected topics in English history from circa 1485 to 1603. Constitutional, political, governmental, social, religious, and cultural aspects of the era are covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5323A. Society and Culture in Brazil.**

This seminar explores the social and cultural history of Brazil through its various ages, the "Age of Sugar", the "Age of Coffee", the "Age of Pedro II", the "Belle Epoque", and the worlds of the sugar and coffee barons.

It explores the character of these ages marked by the grand plantation houses, devotion to European models, and the conflict with a slave society, covering the years from the colonial period to the turn of the twentieth century. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5323B. History of Race and Slavery in Brazil.**

This course assesses the literature on race relations and slavery in Brazil. It situates the topic within a comparative, Atlantic framework and provides a critical understanding of the chief issues and debates in the field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324B. Class and Society in Latin America.**

A seminar that examines the relationship between class and society from the colonial period to the present from a cross-cultural perspective, and the role it plays in the political and economic formation of new states. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5324C. Slavery and Emancipation in the Americas.**

This course examines slavery in the Americas in its full social, political, and economic context. Students will enlarge their understanding of slavery by using an international, transatlantic framework for comparison. The course strengthens analytical skills through extensive discussion as well as significant writing and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324D. Writing the History of Latin America: The Colonial Era.**

This readings seminar provides a critical assessment of the main themes and debates of colonial Latin American historiography. The course discusses the different paradigms under which historians have approached the cultures and societies of the region under Spanish and Portuguese rule, emphasizing on the latest trends and developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324E. Modern Latin American Revolutions.**

The course is a seminar that examines and compares the causes, consequences and results of Latin America's twentieth century revolutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5325A. History of Mexico to 1848.**

A topic course studying the history of Mexico from pre-historic times to the Treaty of Guadalupe Hidalgo. The course encompasses the development of Indian societies from the Yucatan to the American Southwest preceding the Spanish conquest, the social, economic, and political development of Spanish colonial Mexico, the War in Independence, and the formation of the new nation through the war with the United States. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5325C. Revolutionary Mexico.**

A graduate seminar that explores the interrelated economic, social, political, and cultural conditions and forces that shaped revolutionary Mexico. Ideological currents that impacted the period will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5325D. Mexico Since the Revolution.**

This class is a Graduate Seminar covering the History of Post-Revolutionary Mexico. This course will explore the history of Mexico since the Revolution, including the social, cultural, and economic legacies of the Revolution, as well as the process of State building, one party rule, globalization, and the transition to democracy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5335. Twentieth-Century Russia.**

A seminar based on selected topics in recent Russian history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5336. East European History.**

A seminar based on selected topics in recent East European history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5341A. Early U.S. Diplomacy - Revolution to Reconstruction.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and development of the leading principles of foreign policy in the early American republic.

This course assesses the literature on diplomacy and situates the topic within a comparative, Atlantic world framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341B. Caribbean Transnationalism and Diplomacy.**

This seminar focuses on the international relations of the twentieth-century Caribbean, with emphasis on interactions between Cuba, the Dominican Republic, Haiti, Jamaica, the United States, and Venezuela. Students will analyze the ways that international action and response in these countries have affected policy, government, and international social movements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341C. Modern U.S. Diplomacy.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and the development of leading principles of foreign policy in the twentieth and twenty-first centuries. This course assesses the literature on diplomacy and situates the topic within a comparative, transnational framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5343. The Progressive Era.**

This course is a seminar on the rise of industrial capitalism and corporate power and the public response to the related restructuring of the social and economic order between 1890 and 1920, with particular emphasis on the strengths and weaknesses of progressivism as a democratic movement for reform

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5344. Public Memory & American History.**

This course explores recent scholarly inquiries into the ways in which American society, and the various groups within that society, have shaped the collective memory of various aspects of the American past

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5345D. Oral History: Theory & Practice.**

A seminar based upon developing a theoretical and practical understanding of the techniques of oral historical research and document preservation and presentation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345M. History of Utopian Communities.**

This seminar examines utopian experiments in American History. Starting with John Winthrop's 1630 "City upon a Hill," the course explores both religious and secular communal ventures through the eighteenth and nineteenth centuries. The course concludes with an examination of counter-cultural, twentieth-century communes, intentional communities, and cultic separatists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345N. Transformation of the South.**

This course is a readings research seminar on African-American culture and life in the twentieth century South from 1890-1971. The course provides the students with a thorough historical examination through biographies and community studies of specific issues and events that ended legal segregation in the South

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345O. Immigration and Ethnicity in American History.**

This course focuses on North American immigration history from colonial times to the present and looks at how both immigrants and native-born Americans struggled to reconcile conflicting notions of ethnic identity and national loyalty. Also, this course will help students evaluate the impact of immigration and ethnicity on American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345P. History of Mexican American Music in the Southwest.**

This class will introduce students to the musical history of Islamic Spain, Spanish Colonial Mexico, and Mexico and investigate the influences of these traditions on the development of Mexican-American music in the American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345Q. Women and Citizenship.**

This course is designed to introduce students to the literature in United States Women's history that addresses the relationship of women to the state from the colonial period to the present. During this semester we will examine the historiography of Women and Citizenship, a defining concern for historians of women

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345R. History of Country Music.**

This seminar traces the various ethnic, social, cultural, political, economic, and demographic forces in American society that have helped shape country music. Students will also explore how this uniquely American cultural idiom mirrors the historical evolution of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345S. Theories and Methods in Popular Music History/Culture Studies.**

This is a course in the theories and methods of cultural studies and popular music history for graduate students. It is intended to review the history of debates and methodologies in the field to prepare students to do original work that fits into the larger conversations in popular music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5346. African American History.**

This course is an intensive readings and research seminar in African American History. Through the uses of lectures, biographies, institutional histories and community studies, students will be introduced to the different interpretive themes and methodologies that have created the myriad of historical interpretations and reinterpretations of African American History. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**HIST 5347. Texas History.**

A seminar based on selected topics in the history of Texas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5348. History of Texas Music.**

This course examines the evolution of music in Texas and the American Southwest from pre-Colombian times to the present, with an emphasis on how music reflects the ethnically diverse history and culture of the region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5350. The Frontier in American History.**

A seminar based on selected topics in the history of the frontier in American development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5351B. Cold War America.**

This course examines the Cold War years 1945 to 1960, concentrating on the domestic scene. The class will discuss the major issues of domestic politics, society, and culture, through the use of both primary and secondary sources. They will also examine the historiography of the period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351C. Race, Gender, and Ethnicity in American Labor History.**

This graduate seminar explores the impact of race, gender, and ethnicity upon American Labor History. Readings integrate race, gender, and ethnicity as categories of analysis into the study of class formation, experiences, and consciousness within the American labor force. The focus will be on unorganized as well as organized workers in the context of their social, cultural, political, and workplace environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5351D. Politics & Society of Postwar America, 1945-Present.**

This course will explore the interaction of political, economic, and social forces in the years following the Second World War. Emphasis will be placed on analyzing the interdependent relationship between political structures, social movements, and economic circumstances

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351E. Foundations of the U.S. Conservation Movement.**

The course will provide an overview of the conservation movement from the writings of Henry David Thoreau to publication of Rachel Carson's *Silent Spring*. Emphasis will be on social and cultural influences, with particular attention to government programs, naturalist literature, activism, movement leaders, and landmarks of environmental debate

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351F. Women in Modern America.**

This course offers graduate students an introduction in the topics, themes, and issues that animate the history of women in modern America (defined as 1861 to present)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5351H. Mexican American History.**

This course explores the histories, cultures, and politics that shape Mexican American experiences in the United States. Beginning with debates over the culture and demographics of communities in northern Mexico, this course will trace the myriad ways Mexican and Latino communities helped shape the making of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5353. Greater Southwestern History.**

A seminar based on selected topics in the history of the Greater American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5357. The Gilded Age.**

A seminar based on selected topics in late nineteenth-century American history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5358. Sectionalism & Slavery in the United States.**

This course assesses the literature on the causes and consequences of the sectional conflict between the American North and the South before the Civil War, with particular focus on works examining the slavery issue and the way it exacerbated American sectionalism, leading to the fracturing of the American nation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5360. American Historiography.**

A study of the literature of American history with some attention to the philosophies of history and the principles of historical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5361. General Historiography.**

A study of literature, philosophy, and methodology of European and Latin American History

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5362. Military History.**

This seminar is based on selected topics in military history. May be repeated with different emphases up to nine hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5363. Antebellum American Society & Culture.**

This seminar explores the cultural dynamics, social relations, and political and economic structures that shaped the lives of ordinary Americans in the three decades before the Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5366A. Women in Antebellum America.**

This graduate seminar surveys the literature of the U.S. women's history for the period 1780-1865. It focuses on understanding the evolution of the field of women's history in regard to the region, class, and race of women studied and the methodological tools employed by historians. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5366B. The Old South, 1830-1860.**

Readings will enable students to understand the Old South's economic, political, and cultural development and the development of differing interpretations and schools of thought about Old South history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5367. American Civil War.**

A seminar based on topics in the American Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**HIST 5369. Music and Social Movements.**

This course examines the historical role music has played in a variety of social movements related to race, gender, ethnicity, religion, politics, economics, education, labor, civil rights, and other issues in U.S. history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5371. The Practice of Public History.**

A seminar addressing the definition, evolution, and philosophy of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5372. The Practice of Museum Studies and Material Culture.**

A seminar addressing the history, organization, and functions of history museums

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5373. The Practice of Historic Preservation.**

A seminar addressing architectural history and preservation theory and practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5374. Public History Internship.**

Application of skills in public history in an on-the-job setting. Internships will be selected by the student and instructor, and will be supervised by the instructor. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5375A. Documentary Film.**

The use of film & video in public programming; research & produce documents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375B. Archival Management.**

A seminar based on the history, theory, and practice of archival management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375C. Cultural Resource Management.**

This seminar addresses the management of cultural resources such as historic buildings, historic sites, and other tangible remains of our heritage. It explores how cultural resources are preserved and managed under federal and state law, and the nature of the regulatory practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375D. Material Culture in America.**

This course examines the interactions between people and things in American society. The ways in which Americans have created, used, altered, and thought about material objects help us to understand history. Readings and research will focus on the values and attitudes embodied in the production, use, and preservation of objects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375E. Management & Administration in Historical Organizations.**

This course provides an introduction to the non-profit based management, leadership, and administration issues and practices for historical organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375F. Education Programs in Historical/Cultural Institutions.**

This course will study the role of education programs as primary to the missions of historical and cultural institutions and will explore how institutions create and evaluate formal and informal education programs and materials for a variety of audiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375G. Preserving and Interpreting Historic Amateur Movies.**

Amateur filmmakers have documented notable people, places, and events over the last century, but noncommercial films and videos present unique challenges for both preservation and interpretation. This course explores how amateur movies contribute to the historical record and how they fit into the management of mixed-media collections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375H. Historic Preservation in East Asia.**

Participants will explore various approaches to the conservation of the built environment in a range of East Asian societies through in-depth readings and participant-directed projects concerning Japan, Korea, Hong Kong, Singapore, Vietnam, and China. We will compare these approaches to typical western patterns of preservation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375I. Heritage in a Global Context.**

Heritage management is the interdisciplinary approach to the preservation, protection, and public use of the historical record. This course examines definitions and approaches within a global context. Theory and practice will be analyzed through case studies and real world examples. Current issues, sustainability and maritime issues/practices will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5375J. American Architectural History.**

This course will analyze the historical development of American architecture, and examine architecture as evidence of America's cultural, social, economic, and technological evolution from 1607 to the present. Focus will be placed on the role of historic American architecture in the practice of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375K. Evaluating Historic Sites.**

Every year millions of tourists flock to historic sites desiring to commune with "real" history, to "feel" the past. This course will introduce students to methods that scholars use to examine critically the interpretation of history at these sites without discounting the emotional connection to place that many visitors experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375L. Controversy, Power, and Politics in Public History.**

This seminar explores how controversy, power relations, and politics are embedded in the practice of public history. It is designed to help the future practitioner navigate the complex political landscape of public history. This course is informed by the professor's experience as a consultant and federal historian

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375M. Writing for Public History.**

This will be a course intensively focused on research and writing specifically for public history audiences through a variety of venues: journal articles, magazine/newspaper articles, brochures, promotional literature, personal essays, historical markers, reviews, websites, cultural resource management "gray literature," and professional papers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375N. Digital Public History.**

This course will focus on technologies that enable outreach and visitor engagement in a public history context. We will review options for presenting historical information online, through blogs, social media outreach, crowdsourcing, and virtual exhibits. This class has been designed so that students need only have proficiency with personal computing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375O. Records Management & Institutional Archives.**

This course will introduce students to the principles and theories in records management and institutional archives. It will provide practical experience creating a records retention schedule, researching retention requirements and best practices, appraising records with enduring value, and establishing archival series to accommodate ongoing acquisition of institutional records

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375P. The Family and Child in History and Heritage.**

This course examines the historical development of the family and childhood using academic family history methods and public approaches to family heritage. It examines differing experiences of ancestors and concepts of family and childhood over time by race, class, and gender, reflecting shifts in culture, economy, and power relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5376. Local and Community History.**

A seminar applying historical methods to the study of U.S. communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5377. Public History Project.**

A team project focusing on one or more aspects of public history—museum exhibit, historic site interpretation, historic resources survey, etc. Repeatable with a different emphasis. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5379A. Public History Final Master's Project.**

This course will be the initial development of an individualized, advanced student project in cooperation with a client or host institution, focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5379B. Public History Final Master's Project.**

This course, to be taken during the last year of the Public History program, is the continuation of an individualized, advanced student project focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5381. Chinese Communism.**

The Chinese Communist movement from 1919 to the present. Will focus on (1) urban and rural aspects of Chinese Communism; (2) the rise to power of the Chinese Communist Party on mainland China in 1949; and (3) the construction of the Party-State and Socialism in the People's Republic of China

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5382. China and the Modern World.**

This course examines Chinese relations with the modern world from 1800 to the present, focusing on the external aggression and internal transformation between 1839 and 1945; the split into two Chinas in 1949; the mainland China/Taiwan developments, interactions between the two Chinese governments and among the world community since then

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5385. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5390. Problems in Historical Research.**

This course is open to graduate students on an individual basis by arrangement with the department. May be repeated with the approval of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5395B. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395D. Interpretations of World History.**

A survey of world history that focuses on Western civilization as the catalyst of change in world history since the tenth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395E. Mahatma Gandhi in World History.**

In this course students explore how writers have narrated Gandhi's life and interpreted his historical role. Students will research aspects of Gandhi's life using primary sources. The focus of the course will be the study of material left out of histories on Gandhi and reasons for omitted material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395H. European Colonialism.**

This seminar examines the variety of European imperial and colonial experiences around the world from ancient to modern times through selected primary sources and historical literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395I. Global Cold War.**

This seminar will survey literature characteristic of the "new" Cold War historiography, and introduce students to primary sources available at Alkek required to write valuable original work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5398. General Research Seminar.**

A seminar designed to enhance research and writing skills in history. May be repeated for credit as topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in History 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Education (M.Ed), Major in History

### Major Program

The graduate program in history is designed to prepare students for careers in professional history (college teaching, research, or writing), public history, historic tourism, preservation, museums, consulting, public education (secondary teaching), and to provide a general liberal arts education for students desiring careers in business, journalism, law, and government service.

Individuals interested in a more detailed description of the graduate program in history should request a copy of the Graduate Student Handbook from the Department of History. Copies of the Graduate Student Handbook and other information may be obtained from the department's website at <http://www.txstate.edu/history>.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit our website at <http://www.gradcollege.txstate.edu/hist.html>.

### Financial Assistance

A limited number of assistantships and scholarships are available to qualified graduate students. Prospective students interested in applying for an assistantship should contact the graduate director in the Department of History. The Graduate College can provide further information about scholarships.

### Degree Requirements

The Department of History offers the master of education (M.Ed.) degree, which consists of at least 21 hours of graduate history courses and 15

graduate hours in a minor field or a split minor of 9 graduate hours from one field and 6 graduate hours from a second field.

A grade of "B" or better must be earned in all history course work counting towards either degree. All candidates in history must take and pass a comprehensive examination.

## Course Work Requirements

HIST 5360	American Historiography	3
Advisor-approved electives in history		18
Advisor-approved minor or minors		15
<hr/>		
Total Hours		36

Master's level courses in History: HIST

## Courses Offered

### History (HIST)

#### HIST 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### HIST 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### HIST 5300. Foundation Studies in History.

Required as a condition of admission to the M.A. History program for otherwise qualified candidates lacking sufficient History background hours. In this course, students demonstrate necessary competency in History skills and methods to succeed in the program. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### HIST 5301. Instructional Methods Practicum for Graduate Assistants.

Required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### HIST 5307. Medieval European History: Contemporary Trends in Medieval Historiography.

This course introduces graduate students to the craft of the medieval historian, with emphasis on major contemporary shifts in American historiography of the European Middle Ages

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### HIST 5308E. Latin Literature and Roman History and Society.

A seminar based on the study of the most important Latin literary works from the 2nd century B.C. to the 2nd century A.D. No knowledge of Latin is necessary to take this seminar

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5308F. Roman History and Civilization: The "Golden Age" of Rome.

The history of Roman civilization (political, diplomatic, economic, social, cultural, etc.) from Augustus to Marcus Aurelius (27 B.C. – A.D. 180). The main focus will be to explain what made possible this exceptional period and why it lasted so long

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5308G. Warfare in the Ancient World.

A seminar on the nature, development, and historical significance of war in the Western World, from the Trojan War (end of the 13th century BC) to the fall of the Western Roman Empire and the establishment of Germanic kingdoms (5th century AD)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5309A. Interpreting the Eighteenth Century.

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5309B. The French Revolution.

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5309D. Early Modern Spain.

A seminar based on selected topics in political, social, intellectual, and economic history of Spain from 1450 to 1815

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### HIST 5310. Modern European History.

A seminar based on selected topics in the history of Europe from 1815 to the present. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### HIST 5313. Early American History.

A seminar based on selected topics in the Colonial Revolutionary and Early National periods of the United States history. May be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5314. Ethnohistory.**

This seminar seeks to familiarize students with current questions, methods, theories, and debates in ethnohistory, a multidisciplinary approach to the history of indigenous peoples. Materials studied will include both classic and recent ethnohistorical works

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5315A. American Sexualities.**

This course addresses the history of sexualities in the United States from the colonial era to present to shed light on the ways that sexuality has shaped social life, establish conventions, and created spaces to defy norms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5315B. Queer History: GLBT Histories in the United States.**

This course examines the histories of different sexual minorities in the United States from the colonial era to present, though the majority of the course focuses on the twentieth century, to explore the rise of the modern lesbian, gay, bisexual, and transgender identities, politics, and cultures in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316A. Women's Rights in Comparative Perspective.**

This course considers national, transnational, and global development of campaigns for women's rights since the nineteenth century. The course examines how women agitated for their rights in different cultural and historical moments. Students will gain familiarity with comparative feminisms, the gendered nature of liberal movements, and women's activism in national and international arenas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316B. Women and Empire.**

From 1492 until World War II the globe was dominated by imperialism. This course considers the ways that women, in the metropolises of Europe and throughout colonial settings, found their lives shaped by empire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5318A. Eighteenth Century England.**

A seminar based on selected topics in political, social, intellectual, and economic history of England from 1688 to 1815. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318C. The Age of the Stuarts.**

A study of selected topics in English history between 1603 and 1714

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318D. European Imperialism.**

Europe's penchant for building empires helped to greatly enhance their influence (economic, political, and cultural) from the fifteenth to the twentieth century. The course will review the major European empires and discuss the extent of their influence during this 500 year span

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5319. The Age of the Tudors.**

This readings-based course emphasizes differing interpretations of selected topics in English history from circa 1485 to 1603. Constitutional, political, governmental, social, religious, and cultural aspects of the era are covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5323A. Society and Culture in Brazil.**

This seminar explores the social and cultural history of Brazil through its various ages, the "Age of Sugar", the "Age of Coffee", the "Age of Pedro II", the "Belle Epoque", and the worlds of the sugar and coffee barons. It explores the character of these ages marked by the grand plantation houses, devotion to European models, and the conflict with a slave society, covering the years from the colonial period to the turn of the twentieth century. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5323B. History of Race and Slavery in Brazil.**

This course assesses the literature on race relations and slavery in Brazil. It situates the topic within a comparative, Atlantic framework and provides a critical understanding of the chief issues and debates in the field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324B. Class and Society in Latin America.**

A seminar that examines the relationship between class and society from the colonial period to the present from a cross-cultural perspective, and the role it plays in the political and economic formation of new states. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5324C. Slavery and Emancipation in the Americas.**

This course examines slavery in the Americas in its full social, political, and economic context. Students will enlarge their understanding of slavery by using an international, transatlantic framework for comparison. The course strengthens analytical skills through extensive discussion as well as significant writing and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5324D. Writing the History of Latin America: The Colonial Era.**

This readings seminar provides a critical assessment of the main themes and debates of colonial Latin American historiography. The course discusses the different paradigms under which historians have approached the cultures and societies of the region under Spanish and Portuguese rule, emphasizing on the latest trends and developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324E. Modern Latin American Revolutions.**

The course is a seminar that examines and compares the causes, consequences and results of Latin America's twentieth century revolutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5325A. History of Mexico to 1848.**

A topic course studying the history of Mexico from pre-historic times to the Treaty of Guadalupe Hidalgo. The course encompasses the development of Indian societies from the Yucatan to the American Southwest preceding the Spanish conquest, the social, economic, and political development of Spanish colonial Mexico, the War in Independence, and the formation of the new nation through the war with the United States. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5325C. Revolutionary Mexico.**

A graduate seminar that explores the interrelated economic, social, political, and cultural conditions and forces that shaped revolutionary Mexico. Ideological currents that impacted the period will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5325D. Mexico Since the Revolution.**

This class is a Graduate Seminar covering the History of Post-Revolutionary Mexico. This course will explore the history of Mexico since the Revolution, including the social, cultural, and economic legacies of the Revolution, as well as the process of State building, one party rule, globalization, and the transition to democracy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5335. Twentieth-Century Russia.**

A seminar based on selected topics in recent Russian history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5336. East European History.**

A seminar based on selected topics in recent East European history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5341A. Early U.S. Diplomacy - Revolution to Reconstruction.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and development of the leading principles of foreign policy in the early American republic. This course assesses the literature on diplomacy and situates the topic within a comparative, Atlantic world framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341B. Caribbean Transnationalism and Diplomacy.**

This seminar focuses on the international relations of the twentieth-century Caribbean, with emphasis on interactions between Cuba, the Dominican Republic, Haiti, Jamaica, the United States, and Venezuela. Students will analyze the ways that international action and response in these countries have affected policy, government, and international social movements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341C. Modern U.S. Diplomacy.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and the development of leading principles of foreign policy in the twentieth and twenty-first centuries. This course assesses the literature on diplomacy and situates the topic within a comparative, transnational framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5343. The Progressive Era.**

This course is a seminar on the rise of industrial capitalism and corporate power and the public response to the related restructuring of the social and economic order between 1890 and 1920, with particular emphasis on the strengths and weaknesses of progressivism as a democratic movement for reform

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5344. Public Memory & American History.**

This course explores recent scholarly inquiries into the ways in which American society, and the various groups within that society, have shaped the collective memory of various aspects of the American past

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5345D. Oral History: Theory & Practice.**

A seminar based upon developing a theoretical and practical understanding of the techniques of oral historical research and document preservation and presentation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5345M. History of Utopian Communities.**

This seminar examines utopian experiments in American History. Starting with John Winthrop's 1630 "City upon a Hill," the course explores both religious and secular communal ventures through the eighteenth and nineteenth centuries. The course concludes with an examination of counter-cultural, twentieth-century communes, intentional communities, and cultic separatists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345N. Transformation of the South.**

This course is a readings research seminar on African-American culture and life in the twentieth century South from 1890-1971. The course provides the students with a thorough historical examination through biographies and community studies of specific issues and events that ended legal segregation in the South

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345O. Immigration and Ethnicity in American History.**

This course focuses on North American immigration history from colonial times to the present and looks at how both immigrants and native-born Americans struggled to reconcile conflicting notions of ethnic identity and national loyalty. Also, this course will help students evaluate the impact of immigration and ethnicity on American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345P. History of Mexican American Music in the Southwest.**

This class will introduce students to the musical history of Islamic Spain, Spanish Colonial Mexico, and Mexico and investigate the influences of these traditions on the development of Mexican-American music in the American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345Q. Women and Citizenship.**

This course is designed to introduce students to the literature in United States Women's history that addresses the relationship of women to the state from the colonial period to the present. During this semester we will examine the historiography of Women and Citizenship, a defining concern for historians of women

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345R. History of Country Music.**

This seminar traces the various ethnic, social, cultural, political, economic, and demographic forces in American society that have helped shape country music. Students will also explore how this uniquely American cultural idiom mirrors the historical evolution of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345S. Theories and Methods in Popular Music History/Culture Studies.**

This is a course in the theories and methods of cultural studies and popular music history for graduate students. It is intended to review the history of debates and methodologies in the field to prepare students to do original work that fits into the larger conversations in popular music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5346. African American History.**

This course is an intensive readings and research seminar in African American History. Through the uses of lectures, biographies, institutional histories and community studies, students will be introduced to the different interpretive themes and methodologies that have created the myriad of historical interpretations and reinterpretations of African American History. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**HIST 5347. Texas History.**

A seminar based on selected topics in the history of Texas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5348. History of Texas Music.**

This course examines the evolution of music in Texas and the American Southwest from pre-Colombian times to the present, with an emphasis on how music reflects the ethnically diverse history and culture of the region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5350. The Frontier in American History.**

A seminar based on selected topics in the history of the frontier in American development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5351B. Cold War America.**

This course examines the Cold War years 1945 to 1960, concentrating on the domestic scene. The class will discuss the major issues of domestic politics, society, and culture, through the use of both primary and secondary sources. They will also examine the historiography of the period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351C. Race, Gender, and Ethnicity in American Labor History.**

This graduate seminar explores the impact of race, gender, and ethnicity upon American Labor History. Readings integrate race, gender, and ethnicity as categories of analysis into the study of class formation, experiences, and consciousness within the American labor force. The focus will be on unorganized as well as organized workers in the context of their social, cultural, political, and workplace environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5351D. Politics & Society of Postwar America, 1945-Present.**

This course will explore the interaction of political, economic, and social forces in the years following the Second World War. Emphasis will be placed on analyzing the interdependent relationship between political structures, social movements, and economic circumstances

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351E. Foundations of the U.S. Conservation Movement.**

The course will provide an overview of the conservation movement from the writings of Henry David Thoreau to publication of Rachel Carson's *Silent Spring*. Emphasis will be on social and cultural influences, with particular attention to government programs, naturalist literature, activism, movement leaders, and landmarks of environmental debate

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351F. Women in Modern America.**

This course offers graduate students an introduction in the topics, themes, and issues that animate the history of women in modern America (defined as 1861 to present)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5351H. Mexican American History.**

This course explores the histories, cultures, and politics that shape Mexican American experiences in the United States. Beginning with debates over the culture and demographics of communities in northern Mexico, this course will trace the myriad ways Mexican and Latino communities helped shape the making of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5353. Greater Southwestern History.**

A seminar based on selected topics in the history of the Greater American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5357. The Gilded Age.**

A seminar based on selected topics in late nineteenth-century American history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5358. Sectionalism & Slavery in the United States.**

This course assesses the literature on the causes and consequences of the sectional conflict between the American North and the South before the Civil War, with particular focus on works examining the slavery issue and the way it exacerbated American sectionalism, leading to the fracturing of the American nation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5360. American Historiography.**

A study of the literature of American history with some attention to the philosophies of history and the principles of historical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5361. General Historiography.**

A study of literature, philosophy, and methodology of European and Latin American History

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5362. Military History.**

This seminar is based on selected topics in military history. May be repeated with different emphases up to nine hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5363. Antebellum American Society & Culture.**

This seminar explores the cultural dynamics, social relations, and political and economic structures that shaped the lives of ordinary Americans in the three decades before the Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5366A. Women in Antebellum America.**

This graduate seminar surveys the literature of the U.S. women's history for the period 1780-1865. It focuses on understanding the evolution of the field of women's history in regard to the region, class, and race of women studied and the methodological tools employed by historians. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5366B. The Old South, 1830-1860.**

Readings will enable students to understand the Old South's economic, political, and cultural development and the development of differing interpretations and schools of thought about Old South history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5367. American Civil War.**

A seminar based on topics in the American Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5369. Music and Social Movements.**

This course examines the historical role music has played in a variety of social movements related to race, gender, ethnicity, religion, politics, economics, education, labor, civil rights, and other issues in U.S. history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5371. The Practice of Public History.**

A seminar addressing the definition, evolution, and philosophy of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5372. The Practice of Museum Studies and Material Culture.**

A seminar addressing the history, organization, and functions of history museums

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5373. The Practice of Historic Preservation.**

A seminar addressing architectural history and preservation theory and practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5374. Public History Internship.**

Application of skills in public history in an on-the-job setting. Internships will be selected by the student and instructor, and will be supervised by the instructor. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5375A. Documentary Film.**

The use of film & video in public programming; research & produce documents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375B. Archival Management.**

A seminar based on the history, theory, and practice or archival management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375C. Cultural Resource Management.**

This seminar addresses the management of cultural resources such as historic buildings, historic sites, and other tangible remains of our heritage. It explores how cultural resources are preserved and managed under federal and state law, and the nature of the regulatory practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375D. Material Culture in America.**

This course examines the interactions between people and things in American society. The ways in which Americans have created, used, altered, and thought about material objects help us to understand history. Readings and research will focus on the values and attitudes embodied in the production, use, and preservation of objects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375E. Management & Administration in Historical Organizations.**

This course provides an introduction to the non-profit based management, leadership, and administration issues and practices for historical organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375F. Education Programs in Historical/Cultural Institutions.**

This course will study the role of education programs as primary to the missions of historical and cultural institutions and will explore how institutions create and evaluate formal and informal education programs and materials for a variety of audiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375G. Preserving and Interpreting Historic Amateur Movies.**

Amateur filmmakers have documented notable people, places, and events over the last century, but noncommercial films and videos present unique challenges for both preservation and interpretation. This course explores how amateur movies contribute to the historical record and how they fit into the management of mixed-media collections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375H. Historic Preservation in East Asia.**

Participants will explore various approaches to the conservation of the built environment in a range of East Asian societies through in-depth readings and participant-directed projects concerning Japan, Korea, Hong Kong, Singapore, Vietnam, and China. We will compare these approaches to typical western patterns of preservation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375I. Heritage in a Global Context.**

Heritage management is the interdisciplinary approach to the preservation, protection, and public use of the historical record. This course examines definitions and approaches within a global context. Theory and practice will be analyzed through case studies and real world examples. Current issues, sustainability and maritime issues/practices will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375J. American Architectural History.**

This course will analyze the historical development of American architecture, and examine architecture as evidence of America's cultural, social, economic, and technological evolution from 1607 to the present. Focus will be placed on the role of historic American architecture in the practice of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375K. Evaluating Historic Sites.**

Every year millions of tourists flock to historic sites desiring to commune with "real" history, to "feel" the past. This course will introduce students to methods that scholars use to examine critically the interpretation of history at these sites without discounting the emotional connection to place that many visitors experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375L. Controversy, Power, and Politics in Public History.**

This seminar explores how controversy, power relations, and politics are embedded in the practice of public history. It is designed to help the future practitioner navigate the complex political landscape of public history. This course is informed by the professor's experience as a consultant and federal historian

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375M. Writing for Public History.**

This will be a course intensively focused on research and writing specifically for public history audiences through a variety of venues: journal articles, magazine/newspaper articles, brochures, promotional literature, personal essays, historical markers, reviews, websites, cultural resource management "gray literature," and professional papers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375N. Digital Public History.**

This course will focus on technologies that enable outreach and visitor engagement in a public history context. We will review options for presenting historical information online, through blogs, social media outreach, crowdsourcing, and virtual exhibits. This class has been designed so that students need only have proficiency with personal computing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375O. Records Management & Institutional Archives.**

This course will introduce students to the principles and theories in records management and institutional archives. It will provide practical experience creating a records retentions schedule, researching retention requirements and best practices, appraising records with enduring value, and establishing archival series to accommodate ongoing acquisition of institutional records

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375P. The Family and Child in History and Heritage.**

This course examines the historical development of the family and childhood using academic family history methods and public approaches to family heritage. It examines differing experiences of ancestors and concepts of family and childhood over time by race, class, and gender, reflecting shifts in culture, economy, and power relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5376. Local and Community History.**

A seminar applying historical methods to the study of U.S. communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5377. Public History Project.**

A team project focusing on one or more aspects of public history- museum exhibit, historic site interpretation, historic resources survey, etc. Repeatable with a different emphasis. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5379A. Public History Final Master's Project.**

This course will be the initial development of an individualized, advanced student project in cooperation with a client or host institution, focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5379B. Public History Final Master's Project.**

This course, to be taken during the last year of the Public History program, is the continuation of an individualized, advanced student project focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5381. Chinese Communism.**

The Chinese Communist movement from 1919 to the present. Will focus on (1) urban and rural aspects of Chinese Communism; (2) the rise to power of the Chinese Communist Party on mainland China in 1949; and (3) the construction of the Party-State and Socialism in the People's Republic of China

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5382. China and the Modern World.**

This course examines Chinese relations with the modern world from 1800 to the present, focusing on the external aggression and internal transformation between 1839 and 1945; the split into two Chinas in 1949; the mainland China/Taiwan developments, interactions between the two Chinese governments and among the world community since then

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5385. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5390. Problems in Historical Research.**

This course is open to graduate students on an individual basis by arrangement with the department. May be repeated with the approval of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5395B. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5395D. Interpretations of World History.**

A survey of world history that focuses on Western civilization as the catalyst of change in world history since the tenth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395E. Mahatma Gandhi in World History.**

In this course students explore how writers have narrated Gandhi's life and interpreted his historical role. Students will research aspects of Gandhi's life using primary sources. The focus of the course will be the study of material left out of histories on Gandhi and reasons for omitted material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395H. European Colonialism.**

This seminar examines the variety of European imperial and colonial experiences around the world from ancient to modern times through selected primary sources and historical literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395I. Global Cold War.**

This seminar will survey literature characteristic of the "new" Cold War historiography, and introduce students to primary sources available at Alkek required to write valuable original work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5398. General Research Seminar.**

A seminar designed to enhance research and writing skills in history. May be repeated for credit as topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in History 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in History

### Minor Requirements

A graduate minor in history requires 12 hours of advisor-approved history electives.

## Certificate in Public History Studies

### Course Work Requirements

**Required Course**

HIST 5371	The Practice of Public History	3
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**Public History Electives**

Choose 12 hours from the following: 12

HIST 5345D	Oral History: Theory & Practice	
HIST 5372	The Practice of Museum Studies and Material Culture	
HIST 5373	The Practice of Historic Preservation	
HIST 5375A	Documentary Film	
HIST 5375B	Archival Management	
HIST 5375C	Cultural Resource Management	
HIST 5375F	Education Programs in Historical/Cultural Institutions	
HIST 5375G	Preserving and Interpreting Historic Amateur Movies	
HIST 5376	Local and Community History	
HIST 5377	Public History Project	

Total Hours 15

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Center for International Studies

Derrick Hall Room 101

T: 512.245.2339 F: 512.245.7857

<http://www.txstate.edu/internationalstudies>

The Center for International Studies is devoted to understanding and appreciating the rich cultural, political, and social differences of the world. Our mission is to provide quality interdisciplinary education about international affairs in order that graduates will be equipped for careers in the public and private sectors and for further professional education. Students will be prepared with the necessary research and writing skills to pursue careers in law, diplomacy, international affairs, and graduate level education in the International Studies Program at Texas State.



## Learning Outcomes

- Students will demonstrate knowledge of an interdisciplinary perspective, global issues, global processes, global trends, global systems, and foreign policy constants.
- Students will demonstrate oral and written communication skills in international studies with a focus on international business, foreign policy, or travel and tourism.
- Students will demonstrate the ability to analyze an international relations problems.
- Students will demonstrate the ability to conduct research on international relations problems quickly and intelligibly.
- Students will demonstrate understanding of their culture in a global and comparative context.

## Master of Arts (M.A.)

- Major in International Studies (p. 1044)

## Master of Arts (M.A.), Major in International Studies

### Major Program

The master of arts (M.A.) with a major in international studies is an interdisciplinary program that prepares students for work and leadership in an interdependent world. Through training in area studies, technology information training, oral and written communication skills, and business acumen, the program aims to develop leaders for business, government, military, education, non-profit organizations, and international institutions that are collectively facing an increasingly interdependent world where cultural diversity is a reality and the need to appreciate and value such heterogeneity is a prerequisite to global peace and prosperity.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/intlst.html>.

### Financial Assistance

A limited number of fellowships and scholarships are available to qualified graduate students. Departmental fellowships and scholarships are listed on the Center for International Studies website: <http://www.txstate.edu/internationalstudies>. The Graduate College can provide further information about scholarships.

### Degree Requirements

There are two options for earning the master of arts in international studies. The first option requires at least 30 hours of graduate courses, including thesis. The second option, which does not include thesis, requires 36 hours of graduate work, including 3 hours of internship credit.

It is expected that students entering the program have a passing grade in introductory (principles of) microeconomics and macroeconomics at an accredited college or university. The economics courses can be taken after admission. In addition, many graduate courses have prerequisites for students who lack adequate preparation for advanced study in specific disciplines, such as business technology.

## Course Work Requirements

### Thesis Option

#### Core Courses

Choose 3 hours of required history course work 3

HIST 5335	Twentieth-Century Russia
HIST 5362	Military History
HIST 5395B	Modern Middle Eastern History
HIST 5395D	Interpretations of World History
HIST 5395E	Mahatma Gandhi in World History
HIST 5395H	European Colonialism

Choose 9 hours of international studies electives 9

PS 5332	Problems in American Foreign Relations
PS 5356	The British Political Order Since 1900
PS 5357	Russian Politics and Josef Stalin
PS 5358	Civil-Military Relations in Comparative Perspective
PS 5361	Government and Politics of African States
PS 5375	Seminar in International Relations Theory
PS 5377	Problems in International Organizations
PS 5378	Problems in International Law
PS 5379	Problems in International Political Economy
PS 5398	Directed Reading and Research

#### Electives

Select 12 hours of electives from the table below <sup>1</sup> 12

#### Thesis

Choose a minimum of 6 hours <sup>2</sup> 6

HIST 5199B	Thesis
HIST 5299B	Thesis
HIST 5399A	Thesis
HIST 5399B	Thesis
HIST 5599B	Thesis
HIST 5999B	Thesis

Total Hours 30

<sup>1</sup> Selected in consultation with the director of the Center for International Studies.

<sup>2</sup> International studies students may choose thesis courses in: GEO, HIST, MC, POSI, SOCI, or SPAN.

### Non-thesis Option

#### Core Courses

Choose 3 hours of required history course work 3

HIST 5335	Twentieth-Century Russia
HIST 5362	Military History
HIST 5395B	Modern Middle Eastern History
HIST 5395D	Interpretations of World History
HIST 5395E	Mahatma Gandhi in World History
HIST 5395H	European Colonialism

Choose 9 hours of international studies elective course work 9

PS 5332	Problems in American Foreign Relations
PS 5356	The British Political Order Since 1900
PS 5357	Russian Politics and Josef Stalin
PS 5358	Civil-Military Relations in Comparative Perspective
PS 5361	Government and Politics of African States

PS 5375	Seminar in International Relations Theory	
PS 5377	Problems in International Organizations	
PS 5378	Problems in International Law	
PS 5379	Problems in International Political Economy	
PS 5398	Directed Reading and Research	

**Electives**

Choose 21 hours of electives from the table below <sup>1</sup> 21

**Internship**

IS 5387	International Studies Internship	3
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Total Hours 36

<sup>1</sup> Selected in consultation with the director of the Center for International Studies.

**Elective Options**

ANTH 5314	Latin American Cultures	3
ANTH 5322	Peoples and Cultures of Sub-Saharan Africa	3
COMM 5325	Seminar in Human Communication Theory	3
ECO 5310	International Economics	3
ECO 5320	Emerging Market Economies	3
ENG 5311	Foundations in Technical Communication	3
ENG 5313	Studies in Principles of Technical Communication	3
ENG 5314	Specializations in Technical Communication	3
ENG 5383	Studies in Rhetorical Theory	3
FIN 5337	International Finance	3
GEO 5349	Population Geography	3
GEO 5380	Internship	3
GEO 5390	Independent Study	3
HIST 5308E	Latin Literature and Roman History and Society	3
HIST 5308F	Roman History and Civilization: The "Golden Age" of Rome	3
HIST 5308G	Warfare in the Ancient World	3
HIST 5309A	Interpreting the Eighteenth Century	3
HIST 5309B	The French Revolution	3
HIST 5309D	Early Modern Spain	3
HIST 5310	Modern European History	3
HIST 5313	Early American History	3
HIST 5318A	Eighteenth Century England	3
HIST 5318C	The Age of the Stuarts	3
HIST 5318D	European Imperialism	3
HIST 5323A	Society and Culture in Brazil	3
HIST 5323B	History of Race and Slavery in Brazil	3
HIST 5324B	Class and Society in Latin America	3
HIST 5324C	Slavery and Emancipation in the Americas	3
HIST 5324D	Writing the History of Latin America: The Colonial Era	3
HIST 5324E	Modern Latin American Revolutions	3
HIST 5325A	History of Mexico to 1848	3
HIST 5325C	Revolutionary Mexico	3
HIST 5325D	Mexico Since the Revolution	3
HIST 5335	Twentieth-Century Russia	3
HIST 5336	East European History	3
HIST 5345D	Oral History: Theory & Practice	3

HIST 5345M	History of Utopian Communities	3
HIST 5345N	Transformation of the South	3
HIST 5345O	Immigration and Ethnicity in American History	3
HIST 5345P	History of Mexican American Music in the Southwest	3
HIST 5345Q	Women and Citizenship	3
HIST 5345R	History of Country Music	3
HIST 5345S	Theories and Methods in Popular Music History/Culture Studies	3
HIST 5351B	Cold War America	3
HIST 5351C	Race, Gender, and Ethnicity in American Labor History	3
HIST 5351D	Politics & Society of Postwar America, 1945-Present	3
HIST 5351E	Foundations of the U.S. Conservation Movement	3
HIST 5351F	Women in Modern America	3
HIST 5360	American Historiography	3
HIST 5361	General Historiography	3
HIST 5381	Chinese Communism	3
HIST 5385	Modern Middle Eastern History	3
HIST 5390	Problems in Historical Research	3
HIST 5395B	Modern Middle Eastern History	3
HIST 5395D	Interpretations of World History	3
HIST 5395E	Mahatma Gandhi in World History	3
HIST 5395H	European Colonialism	3
IS 5387	International Studies Internship	3
MC 5301	Mass Media and Society	3
MC 5302	Research Methods in Mass Communication	3
MC 5303	Theories of Mass Communication	3
MC 5310	International Communication Issues	3
MKT 5322	Marketing Research Methods	3
MKT 5330	International Marketing	3
PHIL 5301	Applied Philosophy	3
PA 5352	Comparative Public Administration	3
PS 5310	Studies in Ancient and Medieval Political Thought	3
PS 5332	Problems in American Foreign Relations	3
PS 5356	The British Political Order Since 1900	3
PS 5357	Russian Politics and Josef Stalin	3
PS 5358	Civil-Military Relations in Comparative Perspective	3
PS 5377	Problems in International Organizations	3
PS 5398	Directed Reading and Research	3
SOCI 5320	Seminar in Demography	3
SOCI 5371	Directed Study	3
TECH 5310	Product Design and Development	3
TECH 5315	Engineering Economic Analysis	3
TECH 5364	Robust Product and Process Design	3
TECH 5382	Industrial Ecology and Sustainability Engineering	3
TECH 5384	Problems in Technology	3
TECH 5385	Readings in Technology	3

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity

with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in International Studies: IS

## Courses Offered International Studies (IS)

### IS 5387. International Studies Internship.

A work/research experience in a government agency or company related to the students' career interests. The internship will consist of a minimum of 150 hours in the workplace and will require a research paper. This course may be repeated once for additional internship credit. Departmental approval required Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Credit/No Credit

## Department of Modern Languages

Centennial Hall Room 214  
T: 512.245.2360 F: 512.245.8298  
<http://www.modlang.txstate.edu/>

The Department of Modern Languages helps prepare Texas State students for careers in education, international relations and business, and foreign service, as well as other professions.

If you want to think globally, then you need to speak a foreign language. The Modern Language Association:

"regards the learning of languages other than English as vital to an understanding of the world; such learning serves as a portal to the literatures, cultures, historical perspectives, and human experiences that constitute the human record. Pragmatically, we believe in the value of becoming part of a global conversation in which knowledge of English is often not enough, and the security and future of our country depend on accurately understanding other cultures through their linguistic and cultural practices."

The faculty of the Department of Modern Languages publish internationally and are recognized for their expertise in literature, linguistics, cultural studies, and film. CALICO, an international journal and organization devoted to the use of technology in foreign language teaching, is housed in the department. The department also publishes *Letras Hispanas: Revista de Literatura y Cultura*, a peer-reviewed, open-access online journal dedicated to publishing scholarly essays that engage topics in connection with Spanish, Latin American, and U.S. Latino literature and cultures.

## Master of Arts (M.A.)

- Major in Spanish (p. 1047)

## Minor

- Spanish (p. 1052)

## Master of Arts (M.A.), Major in Spanish

### Major Program

The master of arts (M.A.) program in Spanish is a dynamic academic unit that combines research and applied learning in order to advance knowledge of the Spanish language and the literature and cultures of the Hispanic world. Its objective is to empower individuals to be productive in a global society. At Texas State, the Spanish M.A. program provides students with the foundation they need to:

1. serve in a wide range of public and private sector professions requiring a high degree of proficiency in Spanish,
2. pursue doctoral studies, and
3. teach in institutions of higher learning.

The M.A. program is designed for students interested in advancing their skills and knowledge within the context of organized research in Spanish language, literature, and culture.

The M.A. program with minor allows students to advance their skills and knowledge within the context of organized research in Spanish language, literature, and culture and to develop a minor interest in a related area. Students may choose among minors in the humanities, social sciences, education, or other disciplines, or they may develop special emphases in literary periods or areas such as Latin American studies, Medieval/Renaissance studies, Chicano/Chicana literature, critical theory, humanities, linguistics, education, or women's studies.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/span.html>.

## Financial Assistance

Qualified graduate students in the M.A. program may apply for appointments as instructional assistants or teaching assistants. Application forms for instructional assistantships and teaching assistantships are available from the department administrative assistant. For information on other scholarship programs for graduate students, contact The Graduate College.

## Degree Requirements

The 33-hour master of arts program is designed for students interested in advancing their skills and knowledge within the context of organized research in Spanish language, literature, and culture.

The 36-hour master of arts program with minor allows students to advance their skills and knowledge within the context of organized research in Spanish language, literature, and culture and to develop a minor interest in a related area. Students may choose among minors in the humanities, social sciences, education, or other disciplines, or they may develop special emphases in literary periods or areas such as Latin American studies, Medieval/Renaissance studies, Chicano/Chicana literature, critical theory, humanities, linguistics, education, or women's studies.

### 33-hour Thesis Option

#### Major Course Work

Choose 27 hours from:	27
SPAN 5310A	Voyages and Encounters in Spanish American Literature
SPAN 5310B	Don Quijote
SPAN 5310C	Poetry of Spain and Spanish America
SPAN 5310D	Hispanic Literature: Gabriel García Márquez
SPAN 5310E	Hispanic Literature: Hispanic Film
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present
SPAN 5313	Studies in South American Literatures
SPAN 5314	Studies in Central American and Caribbean Literatures
SPAN 5315	Studies in Mexican and Mexican-American Literatures
SPAN 5316	Studies in Spanish Peninsular Culture
SPAN 5317	Studies in the Cultures of the Americas
SPAN 5318	Advanced Composition and Grammar
SPAN 5319	Synchronic Spanish Linguistics
SPAN 5320	Diachronic Spanish Linguistics
SPAN 5321	Spanish Applied Linguistics
SPAN 5322	Spanish for the Professions
SPAN 5390	Studies in Spanish Culture, Language, or Literature

#### Thesis Course Work

Choose a minimum 6 hours	6
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SPAN 5199B	Thesis	
SPAN 5299B	Thesis	
SPAN 5399A	Thesis	
SPAN 5399B	Thesis	
SPAN 5599B	Thesis	
SPAN 5999B	Thesis	
Total Hours		33

### 33-hour Non-thesis Option

#### Major Course Work

Choose 33 hours from:		33
SPAN 5310A	Voyages and Encounters in Spanish American Literature	
SPAN 5310B	Don Quijote	
SPAN 5310C	Poetry of Spain and Spanish America	
SPAN 5310D	Hispanic Literature: Gabriel García Márquez	
SPAN 5310E	Hispanic Literature: Hispanic Film	
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature	
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present	
SPAN 5313	Studies in South American Literatures	
SPAN 5314	Studies in Central American and Caribbean Literatures	
SPAN 5315	Studies in Mexican and Mexican-American Literatures	
SPAN 5316	Studies in Spanish Peninsular Culture	
SPAN 5317	Studies in the Cultures of the Americas	
SPAN 5318	Advanced Composition and Grammar	
SPAN 5319	Synchronic Spanish Linguistics	
SPAN 5320	Diachronic Spanish Linguistics	
SPAN 5321	Spanish Applied Linguistics	
SPAN 5322	Spanish for the Professions	
SPAN 5390	Studies in Spanish Culture, Language, or Literature	
Total Hours		33

### Non-Thesis Option with Internship

#### Major Course Work

Choose 27 hours from:		27
SPAN 5310A	Voyages and Encounters in Spanish American Literature	
SPAN 5310B	Don Quijote	
SPAN 5310C	Poetry of Spain and Spanish America	
SPAN 5310D	Hispanic Literature: Gabriel García Márquez	
SPAN 5310E	Hispanic Literature: Hispanic Film	
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature	
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present	
SPAN 5313	Studies in South American Literatures	
SPAN 5314	Studies in Central American and Caribbean Literatures	
SPAN 5315	Studies in Mexican and Mexican-American Literatures	

SPAN 5316	Studies in Spanish Peninsular Culture	
SPAN 5317	Studies in the Cultures of the Americas	
SPAN 5318	Advanced Composition and Grammar	
SPAN 5319	Synchronic Spanish Linguistics	
SPAN 5320	Diachronic Spanish Linguistics	
SPAN 5321	Spanish Applied Linguistics	
SPAN 5322	Spanish for the Professions	
SPAN 5390	Studies in Spanish Culture, Language, or Literature	

#### Internship

SPAN 5600	Internship and Foreign Study	6
Total Hours		33

### 36-hour Thesis Option

#### Major Course Work

Choose 24 hours from:		24
SPAN 5310A	Voyages and Encounters in Spanish American Literature	
SPAN 5310B	Don Quijote	
SPAN 5310C	Poetry of Spain and Spanish America	
SPAN 5310D	Hispanic Literature: Gabriel García Márquez	
SPAN 5310E	Hispanic Literature: Hispanic Film	
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature	
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present	
SPAN 5313	Studies in South American Literatures	
SPAN 5314	Studies in Central American and Caribbean Literatures	
SPAN 5315	Studies in Mexican and Mexican-American Literatures	
SPAN 5316	Studies in Spanish Peninsular Culture	
SPAN 5317	Studies in the Cultures of the Americas	
SPAN 5318	Advanced Composition and Grammar	
SPAN 5319	Synchronic Spanish Linguistics	
SPAN 5320	Diachronic Spanish Linguistics	
SPAN 5321	Spanish Applied Linguistics	
SPAN 5322	Spanish for the Professions	
SPAN 5390	Studies in Spanish Culture, Language, or Literature	

#### Approved Minor or Cognate Area

Choose an advisor-approved minor of at least 6 hours		6
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#### Thesis Course Work

Choose a minimum 6 hours		6
SPAN 5199B	Thesis	
SPAN 5299B	Thesis	
SPAN 5399A	Thesis	
SPAN 5399B	Thesis	
SPAN 5599B	Thesis	
SPAN 5999B	Thesis	

Total Hours		36
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### 36-hour Non-thesis Option

#### Major Course Work

Choose 30 hours from:		30
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SPAN 5310A	Voyages and Encounters in Spanish American Literature
SPAN 5310B	Don Quijote
SPAN 5310C	Poetry of Spain and Spanish America
SPAN 5310D	Hispanic Literature: Gabriel García Márquez
SPAN 5310E	Hispanic Literature: Hispanic Film
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present
SPAN 5313	Studies in South American Literatures
SPAN 5314	Studies in Central American and Caribbean Literatures
SPAN 5315	Studies in Mexican and Mexican-American Literatures
SPAN 5316	Studies in Spanish Peninsular Culture
SPAN 5317	Studies in the Cultures of the Americas
SPAN 5318	Advanced Composition and Grammar
SPAN 5319	Synchronic Spanish Linguistics
SPAN 5320	Diachronic Spanish Linguistics
SPAN 5321	Spanish Applied Linguistics
SPAN 5322	Spanish for the Professions
SPAN 5390	Studies in Spanish Culture, Language, or Literature

#### Approved Minor or Cognate Area

Choose an advisor-approved minor of at least 6 hours	6
Total Hours	36

### 36-hour Non-thesis Option with Internship

#### Major Course Work

Choose 24 hours from:	24
SPAN 5310A	Voyages and Encounters in Spanish American Literature
SPAN 5310B	Don Quijote
SPAN 5310C	Poetry of Spain and Spanish America
SPAN 5310D	Hispanic Literature: Gabriel García Márquez
SPAN 5310E	Hispanic Literature: Hispanic Film
SPAN 5311	Studies in Medieval and Golden Age Spanish Peninsular Literature
SPAN 5312	Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present
SPAN 5313	Studies in South American Literatures
SPAN 5314	Studies in Central American and Caribbean Literatures
SPAN 5315	Studies in Mexican and Mexican-American Literatures
SPAN 5316	Studies in Spanish Peninsular Culture
SPAN 5317	Studies in the Cultures of the Americas
SPAN 5318	Advanced Composition and Grammar
SPAN 5319	Synchronic Spanish Linguistics
SPAN 5320	Diachronic Spanish Linguistics
SPAN 5321	Spanish Applied Linguistics
SPAN 5322	Spanish for the Professions
SPAN 5390	Studies in Spanish Culture, Language, or Literature

#### Approved Minor or Cognate Area

Choose an advisor-approved minor of at least 6 hours	6	
<b>Internship</b>		
SPAN 5600	Internship and Foreign Study	6
Total Hours		36

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum

number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Modern Languages: SPAN

## Courses Offered

### Spanish (SPAN)

#### SPAN 5100. Practicum in Teaching Spanish.

Required as a condition of employment for graduate teaching and instructional assistants in their initial semester of employment. The course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### SPAN 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### SPAN 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### SPAN 5300. Foundation Studies in Spanish.

Course designed to develop knowledge and skills required for success in graduate-level studies in Spanish. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Spanish

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### SPAN 5306. STU SPN PEN LIT.

Selected works of Spanish literature which reflect lasting cultural values.

a) Medieval and Golden Age: realism and idealism; b) Modern spanish thought: the individual in Spanish history and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SPAN 5307. STU SPAN AMER LIT.

Selected works of Spanish literature which reflect lasting cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SPAN 5308. STU HISPAN CULTURE.

Selected works of Spanish literature which reflect lasting cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### SPAN 5310A. Voyages and Encounters in Spanish American Literature.

Thorough analysis of historical and fictional voyages. The course will address how encounters with indigenous, ethnic minority, and foreign cultures have influenced the development of individual, national and regional identities in Spanish America. Readings will include accounts of the Conquest, colonial texts, and literature for the 19th and 20th centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

#### SPAN 5310B. Don Quijote.

A close reading of the classic Spanish novel Don Quijote by Miguel de Cervantes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310C. Poetry of Spain and Spanish America.**

A focus on the genre of poetry through a close reading of a selection of classical and contemporary poets from Spain and Spanish America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310D. Hispanic Literature: Gabriel García Márquez.**

A study of selected works of Nobel Prize author Gabriel García Márquez, focusing on literature, history, politics, and popular culture of Latin America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310E. Hispanic Literature: Hispanic Film.**

A study of Hispanic cultural issues through film and additional readings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310F. Contemporary Mexican Narratives.**

This course focuses on contemporary Mexican narratives. Students will study Mexico's literary trends such as La nueva narrativa, the Crack Generation, women's literature, and the new historic and testimonial fictions, in order to better understand the cultural process of the Mexico's society in the late 20th and early 21st centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 5311. Studies in Medieval and Golden Age Spanish Peninsular Literature.**

Selections of fiction, poetry, theatre, essay, and film of medieval and Golden Age Spain. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5312. Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present.**

Selections of fiction, poetry, theatre, essay, and film of Spain from the eighteenth century to the present. May be repeated once with different emphasis of additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5313. Studies in South American Literatures.**

Selections of fiction, poetry, theatre, essay, and film of South America. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5314. Studies in Central American and Caribbean Literatures.**

Selections of fiction, poetry, theatre, essay, and film of Central America and the Caribbean. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5315. Studies in Mexican and Mexican-American Literatures.**

Selections of Mexican and Mexican-American fiction, poetry, theatre, essay, and film. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5316. Studies in Spanish Peninsular Culture.**

Culture, history, and society in literature, film, art, music, folklore, and mass media of Spain. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5317. Studies in the Cultures of the Americas.**

Culture, history, and society in literature, film, art, music, folklore, and mass media of the Americas. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 5318. Advanced Composition and Grammar.**

The study of grammar and writing through composition and analysis of ideas and texts. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5319. Synchronic Spanish Linguistics.**

In this course students learn about Spanish dialectology, phonology, regional variation, migration impacts on language variety, issues of language maintenance and death, syntax, and current theories of language contact and koineization (i.e., the formation of new dialects). May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5320. Diachronic Spanish Linguistics.**

Evaluation of aspects of history of the Spanish language including pronunciation, word formation, sentence structure, dialects, and relations to other languages. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5321. Spanish Applied Linguistics.**

This course provides an overview of the major areas of applied linguistic research including: current theories in second language acquisition, teaching methodologies, bilingualism, performance, syntax, and computer assisted learning. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5322. Spanish for the Professions.**

Topics vary and include the study of Spanish for business, law, medicine, criminal justice, and/or the social sciences. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5390. Studies in Spanish Culture, Language, or Literature.**

Independent study under supervision of a graduate faculty member in Spanish, with in-depth readings and research on a specific topic. May be repeated once with different emphasis for additional credit. Prerequisite: Approval by head of the Spanish Division and department chair. Application must be submitted prior to semester registration period. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Spanish 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5600. Internship and Foreign Study.**

This course consists of an internship of at least four weeks duration in a foreign Spanish-speaking country. Interns will work with organizations that use Spanish in a professional context. Internships may be complemented by lectures, observations, interviews, or other activities relevant to the student's academic and professional interests.

Prerequisites: Completion of 18 credit hours required for the Master of Arts with a major in Spanish. Graduate advisor approval required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Spanish

Students with majors other than Spanish may select Spanish as a minor. Students should have completed at least nine hours of advanced undergraduate Spanish with a GPA of 2.75 or higher (4.0 scale). **The graduate minor in Spanish consists of six semester hours chosen in consultation with the graduate advisor.**

## Department of Philosophy

Comal Building Room 102

T: 512.245.2285 F: 512.245.8335

<http://www.txstate.edu/philosophy>

The mission of the Department of Philosophy is to:

- preserve, increase, and transmit knowledge of the discipline of philosophy and its applications,
- foster critical and moral thinking skills,
- support excellence in faculty research and creative activity, and
- promote public dialogue on matters of significance throughout the university and community.

The department regards as a high priority developing excellence in the area of Latin American philosophy.

The department maintains its commitment to fostering critical thinking and dialogue on matters of public interest. The successful Dialogue Series will continue, and we will especially look to encourage more connections with and involvement from the local community. We shall seek endowment funding for some or all of the series.

We anticipate that the number of our majors and minors will continue the steady increase we have witnessed since the 1980s and, so, predict a yearly increase of 10%. Students will continue to find attractive the skill set that is developed by the study of philosophy.

## Master of Arts (M.A.)

- Major in Applied Philosophy and Ethics (p. 1053)

## Minor

- Philosophy (p. 1056)

## Certificate

- Professional Ethics (p. 1056)

# Master of Arts (M.A.), Major in Applied Philosophy and Ethics

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/aphe.html>.

## Degree Requirements

### Thesis Option

#### Required Courses

PHIL 5301	Applied Philosophy	3
PHIL 5302	Dialogue	3
PHIL 5320	History of Ethics	3

#### Prescribed Electives

Choose 9 hours of graduate electives from the following: 9

PHIL 5301	Applied Philosophy	
PHIL 5302	Dialogue	
PHIL 5303	Philosophy of Technology	
PHIL 5304	Philosophy of Language	
PHIL 5314	American Philosophy	
PHIL 5322	Professional Ethics	
PHIL 5323	Environmental Ethics	
PHIL 5324	Meaning of Life	
PHIL 5325	Philosophy of Sex and Love	
PHIL 5326	Philosophy and Sport	
PHIL 5327	Medical Ethics and Bio-ethics	
PHIL 5328	Major Work or Theme in Ethics	
PHIL 5351	Philosophy of Education	
PHIL 5355	Philosophical Theory of Science	
PHIL 5356	Philosophical Theory of Knowledge	
PHIL 5388	Problems in Philosophy	
PHIL 5395	Internship in Applied Philosophy	

#### Free Electives

Choose 6 hours of graduate course work from a discipline other than philosophy. 6

#### Thesis Courses

Choose a minimum 6 hours 6

PHIL 5199B	Thesis	
PHIL 5299B	Thesis	
PHIL 5599B	Thesis	
PHIL 5999B	Thesis	
PHIL 5399B	Thesis	
PHIL 5399A	Thesis	

Total Hours 30

### Non-thesis Option

#### Required Courses

PHIL 5301	Applied Philosophy	3
PHIL 5302	Dialogue	3
PHIL 5320	History of Ethics	3

#### Prescribed Electives

Choose 18 hours of graduate electives from the following: 18

PHIL 5303	Philosophy of Technology	
PHIL 5304	Philosophy of Language	
PHIL 5314	American Philosophy	
PHIL 5322	Professional Ethics	
PHIL 5323	Environmental Ethics	
PHIL 5324	Meaning of Life	
PHIL 5325	Philosophy of Sex and Love	
PHIL 5326	Philosophy and Sport	
PHIL 5327	Medical Ethics and Bio-ethics	
PHIL 5328	Major Work or Theme in Ethics	
PHIL 5351	Philosophy of Education	
PHIL 5355	Philosophical Theory of Science	
PHIL 5356	Philosophical Theory of Knowledge	
PHIL 5388	Problems in Philosophy	
PHIL 5395	Internship in Applied Philosophy	

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Total Hours 33

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

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## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for



each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

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The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the

personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Philosophy: PHIL

## Courses Offered Philosophy (PHIL)

### PHIL 5100. Practicum in Teaching Philosophy.

This course orients Instructional Assistants to the principles of teaching philosophy responsibly. Topics include grades, evaluation of written work, classroom management, academic values, and teaching style. This course is required for all new Instructional Assistants in Philosophy. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

### PHIL 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### PHIL 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### PHIL 5301. Applied Philosophy.

Practical application of methods and teaching of philosophy to such major areas of human experience as religion, science, morality, politics, art, or literature. The study of one or more of these areas will demonstrate how philosophy contributes to the identification of issues as well as their resolution. May be repeated twice for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PHIL 5302. Dialogue.

Study of literature about the nature, purpose, and significance of dialogue along with active participation in the dialogues of the Department of Philosophy's Dialogue Series

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PHIL 5303. Philosophy of Technology.

Study of philosophical and ethical dimensions of technology including the nature of technology and technological progress, the relation of humans to the technological environment, whether technology is value-laden, and the social character of technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5304. Philosophy of Language.**

This course will examine the nature, structure, and uses of language and its role in conceptualizing and attempting to solve perennial philosophical problems. Features of language such as meaning, reference, truth, verification, and speech acts will be investigated and applied to issues of metaphysics and ontology, epistemology, and theory construction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5305. Philosophical Writing.**

The course focuses on theoretical and methodological foundation necessary for producing philosophical works suitable for submission to conferences or journals. Students will analyze the standards for and engage in the process of developing papers for professional presentation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**PHIL 5306. Foundation Studies.**

Foundation Studies in Philosophy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5314. American Philosophy.**

This course is an examination of contributions of Americans to perennial philosophical issues, including the tradition of American Pragmatism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**PHIL 5320. History of Ethics.**

This course is a survey of major ethical theories in the Western philosophical tradition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**PHIL 5322. Professional Ethics.**

Study of major topics in business and professional ethics, including what a profession is, whether it differs from business, and what is involved with moral education, social responsibilities, and ethical standards of professional and business people. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5323. Environmental Ethics.**

Study of ethical issues associated with the environment including the nature, use, preservation, and restoration of the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5324. Meaning of Life.**

Investigation of major theories of the meaning of life in Western and Eastern philosophies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5325. Philosophy of Sex and Love.**

Critical examination of major philosophical theories on sex and love from ancient to modern times

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5326. Philosophy and Sport.**

An examination of the philosophical issues that arise in sport. Topics include the social significance of sport, amateurism, the ethics of competition, the meaning of violence within sports, and other related issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5327. Medical Ethics and Bio-ethics.**

Study of ethical issues, dilemmas, codes of conduct, and social responsibilities of health care professionals and bio-researchers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5328. Major Work or Theme in Ethics.**

This course examines in detail a single significant work, theme or issue in ethics. May be repeated with a different focus

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**PHIL 5329. Food Ethics.**

Eating raises hard moral questions. This course explores those questions as well as potential answers. Standard topics include the nature of the food system, global hunger, food justice, consumer ethics, industrial agriculture and its alternatives, the plight of workers, overconsumption, and public health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5340. Philosophy of Logic.**

The course is an examination of the conceptual frameworks of and philosophical challenges to classical and alternative logics. Special attention will be paid to the use of the logics within metaphysics, philosophy of language, philosophy of mind, and meta-ethics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5351. Philosophy of Education.**

Study of major philosophical theories on nature, value, and purpose of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5355. Philosophical Theory of Science.**

An examination of some of the fundamental concepts in science, including relevant evidence, induction, explanation, and commitments when accepting a scientific theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5356. Philosophical Theory of Knowledge.**

The course will consist of a close examination of topics in the philosophical theory of knowledge, such as skepticism, defining knowledge, the nature of justification, perception, and truth

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5388. Problems in Philosophy.**

Independent study open to students on individual or small group basis. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PHIL 5395. Internship in Applied Philosophy.**

Structured practical experience in applied philosophy at a private or public setting. Supervision will be provided both by a member of the graduate faculty and by a key individual in the workplace. Permission of instructor required. Graded on a credit (C), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**PHIL 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis on PHIL 5399B  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**PHIL 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**PHIL 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**PHIL 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Minor in Philosophy

### Minor Requirements

Choose six hours from the following:

6

PHIL 5301	Applied Philosophy
PHIL 5302	Dialogue
PHIL 5303	Philosophy of Technology
PHIL 5322	Professional Ethics
PHIL 5323	Environmental Ethics
PHIL 5324	Meaning of Life
PHIL 5351	Philosophy of Education
PHIL 5388	Problems in Philosophy
WS 5376	Images of Women

## Texas State Professional Ethics Certificate

The Texas State graduate certificate in professional ethics requires six semester hours of credit – three hours of required course work and three hours of elective course work. The required course is PHIL 5322. The elective course may be selected from any of the graduate courses in philosophy.

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Department of Political Science

Undergraduate Academic Center 355A

T: 512. 245.2143 F: 512. 245.7815

<http://www.polisci.txstate.edu/>

The Department of Political Science is a part of the College of Liberal Arts at Texas State. As a liberal arts discipline, the department is dedicated to promoting student learning about fundamental theory and key concepts relevant to political science and public administration and encouraging student learning relative to the development of strong analytical skills, effective oral and written communication skills, and rigorous critical thinking skills. Throughout the course of their study, students are invited to reflect not simply on their career goals but also on what type of persons they want to become, and on their rights and duties as citizens.

We are the academic home for about 800 undergraduate majors and minors and 380 graduate students. We also offer graduate certificates. We house the Center for Research, Public Policy, and Training (CRPPT) and the *Armed Forces and Society Journal*.

## Texas Certified Public Manager (CPM) Program

Please see the 'Texas Certified Public Manager Program' section of this catalog.

## Master of Arts (M.A.)

- Major in Legal Studies (p. 1056)
- Major in Political Science (p. 1059)

## Master of Public Administration (M.P.A.)

- Major in Public Administration (p. 1063)

## Minors

- Legal Studies (p. 1066)
- Political Science (p. 1066)

## Certificates

- Paralegal Studies (p. 1067) (requires concurrent enrollment in the Master of Arts degree with a major in Legal Studies Program at Texas State University)

## Master of Arts (M.A.), Major in Legal Studies

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/lglst.html>.

## Degree Requirements

The master of arts (M.A.) with a major in legal studies is a non-thesis, 36-hour program consisting of a core of 21 hours, including a cumulative research project and an internship. To receive an M.A. degree with a major in legal studies, all students must successfully complete the 36-hour curriculum while maintaining a "B" average and must receive a "B" or better in each required course.

In addition, an oral comprehensive examination over course work and a cumulative research project will be required for completion of the M.A. with a major in legal studies degree. The M.A. in legal studies is an ABA-approved program that offers career enhancement in law-related fields and helps meet the evolving needs of the legal and business communities and federal and state government entities. This program does not qualify graduates to practice law. Legal assistants or paralegals must work under the supervision of a licensed attorney.

## Course Work Requirements

LS 5310	Introduction to the Paralegal Profession and Legal Technology	3
LS 5320	Legal Research	3
LS 5330	Legal Theories and Analysis	3
LS 5340	Litigation	3
LS 5350	Legal Drafting	3
LS 5360	Advanced Litigation	3
LS 5370	Advanced Legal Research & Writing	3
LS 5389	Law Office Internship	3
LS 5399	Applied Research Project	3
<b>Required Courses</b>		
<b>Prescribed Electives</b>		
Choose 9 hours from the following:		9
LS 5341	Administrative Law	
LS 5343	Family Law	
LS 5349	Business Organizations	
LS 5351	Estates and Trusts	
LS 5353	Real Estate	
LS 5359	Alternative Dispute Resolution	
LS 5361	Criminal Law and Procedure	
LS 5363	Social Legislation	
LS 5371	Intellectual Property Law	
LS 5373	Contract Law	
LS 5379	Issues and Problems in Law	
Total Hours		36

Master's level courses in Political Science: POSI

## Courses Offered

### Legal Studies (LS)

#### LS 5310. Introduction to the Paralegal Profession and Legal Technology.

This course provides an introduction to the paralegal profession and law office technology, including the history of and current issues facing the profession, paralegal associations, paralegal regulation and certification options, paralegal ethics, and the skills necessary to become an effective paralegal, with an emphasis placed on legal technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5320. Legal Research.

This course provides a study of the legal research process, including primary and secondary sources of law and related finding tools and legal citation rules; research using books and online tools; and provides a basic introduction to legal writing, including how to brief cases and prepare legal research memoranda

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5330. Legal Theories and Analysis.

This course is a study of statutory and case law development of basic legal theory including tort theory, contract theory, and evidence theory. This course is intended to assist students in gaining knowledge of fundamental legal theory, reasoning, and analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5340. Litigation.

This course is a study of statutory and case law relating to civil procedure in order to develop an understanding of litigation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5341. Administrative Law.

This course deals with the origin, development, and theory of Administrative Law as well as the agencies and tribunals that administer the law. Emphasis is on enforcement, quasi-legislative and quasi-judicial powers of federal administrative agencies and state tribunals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5343. Family Law.

This course examines Texas law, dealing with pre-marital contracts, marriage relationships, annulment, abortion, adoption, juveniles, Family Code, divorce, support for children, custody, and separation agreements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### LS 5349. Business Organizations.

This course is a study of the federal and Texas law relating to corporations with particular emphasis on the preparation of initial and amended articles of incorporation, satisfaction of state filing requirements, the drafting of employment agreements, and other activities necessary to the maintenance, merger, and the closing of corporations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5350. Legal Drafting.**

This course is a study of legal drafting styles, forms and techniques, including legal document drafting, objective, informative document drafting, and persuasive-style drafting of trial and appellate briefs.

Prerequisite: LS 5320 with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5351. Estates and Trusts.**

This course is the study of Texas laws relating to estates and trusts with emphasis on the preparation of documents regarding the administration of estates

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5353. Real Estate.**

This course is a study of Texas laws concerning real properties, conveyances, recordation, taxation, and sales regarding real property. Students are familiarized with various records dealing with real property maintained by public officials and develop an understanding of the procedures by which titles are searched. Repeatable with different emphasis for a maximum of 6 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**LS 5359. Alternative Dispute Resolution.**

This course is an in-depth study of procedural and substantive legal principles of alternative dispute resolution. Emphasis will be placed on procedures and practical applications of negotiation, mediation, arbitration, and alternative adjudicative processes with integration of ethical and policy issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5360. Advanced Litigation.**

This course is a study of the use of the American legal system to resolve disputes between individuals and entities. Emphasis is on trial advocacy planning, analysis, preparation, and strategy. Students develop skills necessary to understand and to participate as an advocate in the trial process. Prerequisites: LS 5320 and LS 5340 with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5361. Criminal Law and Procedure.**

This course is a study of the state and federal statutory and common law relating to the criminal justice system. This course includes the study of the criminal litigation process and procedure with emphasis on theory and practical legal assistant skill development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5363. Social Legislation.**

This course is a study of Texas and federal laws established by statute to remedy various social problems including worker's compensation, unemployment compensation, bankruptcy, and commercial transactions. This course includes a study of statutory and case law development. May be repeated with different emphasis for a maximum of 6 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**LS 5370. Advanced Legal Research & Writing.**

This course has four components: (1) refinement of skills in computer-assisted and manual legal research; (2) legal analysis, legal writing, and organizing, complex legal documents; (3) techniques of persuasive argument; and (4) applied research project. Prerequisites: LS 5320 and LS 5350, with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5371. Intellectual Property Law.**

This course covers principal tenets of intellectual property, including trademarks, copyrights, patents, and trade secrets. Students analyze a wide variety of intellectual property issues, the impact of intellectual property in our current society, and the practical and theoretical concerns raised by the interplay of state and federal laws

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5373. Contract Law.**

This course is a study of contracts (e.g., real estate contracts, employment contracts; contracts for services; construction contracts; e-contracts); the common law and statutory law of contracts (e.g., Statute of Frauds; Uniform Commercial Code; Uniform Computer Information Transactions Act; Uniform Electronic Transactions Act), and contract drafting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5379. Issues and Problems in Law.**

This course examines current legal issues and problems through legal analysis and conceptual aspects of legal research and writing. Students perform literature reviews of current topics and develop research questions. Prerequisite: LS 5320 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LS 5388. Directed Reading and Research.**

This course is an advanced reading and/or research on various topics in legal studies under the direction of a graduate faculty member. May be repeated once with different emphasis and professor for a maximum of 6 credit hours. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**LS 5389. Law Office Internship.**

This course emphasizes problems, procedures, and ethics in the legal-working environment. Students are involved in internship consisting of approximately 10-15 hours a week to gain experience in the legal-working environment. Course is required unless the student has related experience and has, with program director permission, elected to take a practicum. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**LS 5399. Applied Research Project.**

This course is the applied research project for the Master of Arts in Legal Studies degree. Students work with the supervising instructor to complete an applied research project to submit for oral examination. Prerequisites: LS 5320, LS 5350, and LS 5370 with grades of "B" or better. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



# Master of Arts (M.A.), Major in Political Science

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/posi.html>.

## Degree Requirements

The master of arts (M.A.) degree with a major in political science consists of 24 hours of political science (PS) course work (9 of which can be course work in a field related to political science with approval of the program director), a 3 hour required course (PS 5301, Approaches to the Study of Political Science), and 6 hours of thesis. There is also a non-thesis option. Students in the non-thesis option are required to take 36 hours of political science course work (9 of which can be course work in a field related to political science). Non-thesis students must take PS 5301, Approaches to the Study of Political Science, as part of their degree hour requirements. Except for the 9 hours that may be taken in a related field (with approval of the M.A. political science graduate advisor) and PS 5301, M.A. students are limited to selection of electives from the courses listed in the table below. Students who have earned at least a 3.5 GPA in political science course work may, upon completion of 18 credit hours with no incomplete grades on their transcript, petition for the thesis option. Students should regularly consult with the graduate advisor for selection of course work.

### Non-thesis Option

Required Core Course

PS 5301	Approaches to the Study of Political Science	3
Political Science Electives (See table below)		33
Total Hours		36

### Thesis Option

Require Core Course

PS 5301	Approaches to the Study of Political Science	3
Political Science Electives (See table below)		24
Thesis Courses (Choose a minimum 6 hours)		6
PS 5399A	Thesis	
PS 5399B	Thesis	
Total Hours		33

Except for the 9 hours that may be taken in a related field (with approval of the program director), M.A. students are limited to selection of electives from among the following courses:

PS 5302	Political Research and Methodology	3
PS 5310	Studies in Ancient and Medieval Political Thought	3
PS 5311	Social Contract Theory	3
PS 5312	Roots of American Constitutionalism	3
PS 5313	Justice and Liberty in American Thought	3
PS 5315	Contemporary Perspectives in Modern Liberalism	3
PS 5316	The Crisis of Liberalism and The Future of Democracy	3
PS 5317	Theological Perspectives in Modern Democracy	3
PS 5318	The Problem of Power and the Crisis of Modernity	3

PS 5330A	Nuclear Weapons in International Politics	3
PS 5330B	Tocqueville and American Democracy	3
PS 5332	Problems in American Foreign Relations	3
PS 5334	Texas Politics	3
PS 5335	The Role of Interests in America	3
PS 5336	Property, Liberty, and Popular Sovereignty	3
PS 5337	American Political Culture	3
PS 5338	Cultural Discourse of American Politics	3
PS 5339	The American Presidency	3
PS 5340	Congress and the Legislative Process	3
PS 5341	Seminar in Constitutional Law and Theory	3
PS 5356	The British Political Order Since 1900	3
PS 5357	Russian Politics and Josef Stalin	3
PS 5358	Civil-Military Relations in Comparative Perspective	3
PS 5360	Economic Development in Developing Nations	3
PS 5361	Government and Politics of African States	3
PS 5375	Seminar in International Relations Theory	3
PS 5377	Problems in International Organizations	3
PS 5378	Problems in International Law	3
PS 5379	Problems in International Political Economy	3
PS 5380	International Conflict and Security	3
PS 5389	Internship in Government	3
PS 5398	Directed Reading and Research	3

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) **or** PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Political Science: POSI

## Courses Offered Political Science (POSI)

### PS 5100. Instructional Methods Practicum for Graduate Assistants.

This course introduces key concepts and practices in the teaching of college introductory political science courses. It provides regular in-service training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. It is repeatable 3 times with different emphases and with a maximum of 4 credit hours

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### PS 5300. Foundation Studies in Political Science.

Students develop knowledge and skills required for success in graduate-level coursework in Political Science. Course content varies depending on academic preparation. This course does not earn graduate degree credit. The approval of the graduate program director is required. It is repeatable 3 times with different emphases and with a maximum of 12 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

### PS 5301. Approaches to the Study of Political Science.

This course provides an intensive introduction to the advanced study of political science. It focuses on the key concepts, variables, and approaches used to describe, explain, and predict political phenomena. It also discusses key normative theories and the variety of methodologies used in political science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### PS 5302. Political Research and Methodology.

This course is a topical seminar for the exploration of problems in the scope and the methods of political science and public administration. The course emphasizes quantitative methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### PS 5310. Studies in Ancient and Medieval Political Thought.

This course covers selected topics in Greek and Roman political theory, patristic understanding of politics, and the political theory of the Middle and High Middle Ages. This course includes study of the writings and thought of Thucydides, Plato, Aristotle, Cicero, Augustine, Al-Farabi, John of Salisbury, Aquinas, and others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5311. Social Contract Theory.**

This course is an examination of the social contract, consent, and popular sovereignty in early modern thought. Attention is given to the work of Thomas Hobbs, John Locke, Jean Jacques Rousseau, and Immanuel Kant (as well as others) and to their critics both then and now

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5312. Roots of American Constitutionalism.**

This course examines the origins and evolution of the ideas which inform the American constitutional system, includes an examination of classical, Christian, medieval, Renaissance, and Enlightenment thought that, combined with the British liberal tradition, laid the groundwork for the American experiment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5313. Justice and Liberty in American Thought.**

This course examines the concepts of justice and liberty in American thought from the seventeenth century to the present. Attention is given both to the nature of liberty and justice and to their practical requirement as understood by various American thinkers, including statesmen, reformers, social scientists, and philosophers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5315. Contemporary Perspectives in Modern Liberalism.**

This course is a brief review of the history and development of modern liberalism and the ensuing response and contemporary alternatives

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5316. The Crisis of Liberalism and The Future of Democracy.**

This course is an examination of the nature and intellectual foundations of the liberal tradition and the implications of the crisis besetting contemporary theory for the future of democratic government

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5317. Theological Perspectives in Modern Democracy.**

This course explores the influence of religion on the rise of modern democracy and the efforts of various religious thinkers to explore the nature and foundations of democratic government

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5318. The Problem of Power and the Crisis of Modernity.**

This course is an examination of the crisis of modernity and its implications for humanity's future

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5330A. Nuclear Weapons in International Politics.**

This course examines the effects of nuclear weapons on international politics. The course begins with a comparative historical account of the nuclear arms race and efforts to achieve nuclear arms control and disarmament. It then shifts to examine contemporary theories of nuclear proliferation and the case studies which illumine them

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PS 5330B. Tocqueville and American Democracy.**

This course considers Tocqueville's Democracy in America. Topics include the relationship between aristocracy and democracy; the instability of democracy; the antidotes to these instabilities; the significance of habit in Tocqueville's thought; the case for American Exceptionalism; and the importance of religion for democracy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PS 5330C. Party Systems in Latin America.**

The course examines some key insights in party and party system theory and practice. Latin America is the regional referent for examining these themes, and country examples are studied in considerable depth to illustrate the theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PS 5330D. Problems in Political Science: International Humanitarian Affairs.**

This course inquires into the intellectual legacy of international humanitarian issues, including forced migration, refugee problems, moral issues related to humanitarian intervention and emergency aid issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PS 5332. Problems in American Foreign Relations.**

This course is a seminar based on selected topics in American foreign policy and United States involvement in international relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5334. Texas Politics.**

This course examines some of the traditional debates over federalism, intergovernmental relations, and different ways people compare the states. It introduces Texas political institutions and its political history as well as examines some of the current Texas public policy questions such as education, criminal justice, and economic development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5335. The Role of Interests in America.**

This course examines the role of interest groups and other organizations in the United States. Students learn about the range of social and economic interests presently active in our country and what observers from a variety of perspectives believe this activity implies for the health of our political system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5336. Property, Liberty, and Popular Sovereignty.**

This course examines the role, status, and power of property in demographic societies. It takes a modified historical approach to the subject, tracing attitudes regarding property from before the American Revolution until today. Although the emphasis is on the United States, the course reviews property in other societies where appropriate

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5337. American Political Culture.**

This course explores selected problems related to American political culture with particular emphasis on the question of the cultural preconditions of free government. Beginning with Alexis de Tocqueville's classic study of American political culture, the course explores different Tocquevillian themes in a contemporary American context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5338. Cultural Discourse of American Politics.**

This class identifies the way political discourse and social and political cultures connect within Americans' minds. Diverse theoretical perspectives will be used to explore the phenomena involved in social and political issues regarding values, meanings, norms, and prejudices and methods of improving political discourse within American political culture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5339. The American Presidency.**

The course entails an historical analysis of presidential elections from 1789 to the present day. In addition, students examine and engage in reasonable speculations about the upcoming elections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5340. Congress and the Legislative Process.**

This course examines the American legislative process with a focus on Congress. The framework for the course is based on three themes: 1) the "dual Congress," i.e., the notions of deliberation versus representation; 2) the distribution of power in Congress and its consequences; and 3) the bicameral nature of Congress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5341. Seminar in Constitutional Law and Theory.**

This course examines selected issues in constitutional theory, including the theory of judicial review, and constitutional interpretation. It examines the debate on constitutional interpretation in light of cases dealing with the First Amendment freedom of speech, press, and religion, and with substantive due process and the equal protection clause

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5356. The British Political Order Since 1900.**

This course examines British policy from 1901 to the present and the major events that affected British history and politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5357. Russian Politics and Josef Stalin.**

This course examines Josef Stalin's personal and public life, analyzes his accomplishments and failures, and generates a summative assessment of his impact on Russian and global politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5358. Civil-Military Relations in Comparative Perspective.**

This course is an intensive exploration of the subject of civil-military relations. Students critically examine the primary positive and normative theories of civil-military relations. They also investigate the state of civil-military relations in the United States and around the globe

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5360. Economic Development in Developing Nations.**

This course examines some of the factors that account for economic development/underdevelopment in developing nations. The factors examined include political, economic and institutional variables. These underlying variables reveal the multi-causal nature of socio-economic development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5361. Government and Politics of African States.**

This course examines governments and politics of African states.

It examines the nature of domestic and international politics, the precolonial politics and political culture, the impact of the colonial period on politics, several cases of post-colonial successes and failures, the critical nature of external involvement in the politics, and the settings of civil war

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5375. Seminar in International Relations Theory.**

This course is designed to engage students in the major theoretical and conceptual traditions of international relations in order to assess the complex issues, developments and events constituting international politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5377. Problems in International Organizations.**

This course analyzes the structure, functions, and role of the international organizations in the international system. The course addresses the role of international regions, regional organizations, functional agencies, and bilateral organizations. The procedures and processes on international argument and policy-making are studied through participation in a model security council

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5378. Problems in International Law.**

This course examines the nature, functions, and scope, of international law. It addresses several major areas including legal sources, diplomatic practice, territorial jurisdiction, legal personality, the law of state responsibility, asylum law, human rights, and the law of war. The course is heavily research oriented and includes moot court arbitration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**PS 5379. Problems in International Political Economy.**

This course examines theories and issues in international political economy. The course emphasizes the political and economic conditions conducive to the development of cooperative international economic behavior among countries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5380. International Conflict and Security.**

This course deals with the field of security studies. Security studies focuses on what Clausewitz famously called "politics by other means": war. This course centers on three enduring topics: the causes of war, the use of force, and the future of warfare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PS 5389. Internship in Government.**

This course offers students practical experience in the on-going work of a selected governmental unit. The student is evaluated on the basis of a research paper, work journal, and work performance. The approval of the graduate program director is required. It may be repeated once with different emphasis and with a maximum of 6 credit hours

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5398. Directed Reading and Research.**

This course is an advanced reading and/or research on various topics in political science under the direction of a graduate faculty member. It may be repeated once with different emphasis and professor for a maximum of 6 credit hours. The approval of the graduate program director is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until a student has completed the thesis under a Political Science Thesis B course. Graded on a credit (CR), progress (PR), no-credit (F) basis. Approval of the graduate program director is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in a Thesis B course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PS 5399A with a grade of PR. The approval of the graduate program director is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

# Master of Public Administration (M.P.A.), Major in Public Administration

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/padm.html>.

## Degree Requirements

The master of public administration (M.P.A.) degree is a 39 hour program consisting of a core of 30 hours and 9 hours of elective courses. All students will be required to complete an applied research project (ARP) and complete an oral defense of the ARP. Students without public sector experience are required to complete a 3 hour internship course in addition to the 39 hour curriculum while maintaining a "B" average. Students must choose one of the following career support areas:

- General Public Administration
- Environment, Energy, and Sustainability
- Human Resources and Labor Relations
- Local and State Government Management
- Non-Profit Sector Leadership
- Urban Policy and Planning

## Course Work Requirements

### Required Core

PA 5300	Introduction to Public Policy and Administration	3
PA 5310	Public Finance Administration	3
PA 5320	Organizational Theory, Change, and Behavior	3
PA 5330	Public Personnel Administration	3
PA 5340	Introduction to Public Law	3
PA 5350	Public Policy Processes	3
PA 5370	Public Management and Ethics	3
PA 5390	Applied Research Methodology	3
PA 5397	Research Design and Proposal Development for Public Administration	3
PA 5398	Applied Research Project	3

### Career Support Area

Nine hours in an approved concentration	9
<b>Total Hours</b>	<b>39</b>

### Career Support Areas

#### General Public Administration

Choose 9 hours in consultation with graduate advisor	9
<b>Total Hours</b>	<b>9</b>

#### Environment, Energy, and Sustainability

PA 5353	Ecology and the Politics of Sustainability	3
PA 7355	Environmental Policy, Politics, and Law	3
Choose 3 hours from the following:	3	
PA 5312	Program Evaluation and Administrative Statistical Analysis	



PA 5313	Public Sector Economics	
Total Hours		9

**Human Resources and Labor Relations**

PA 5331	Labor Management Relations	3
PA 5332	Management Practices in Public Personnel Administration	3
PA 5340	Introduction to Public Law	3
Total Hours		9

**Local and State Government Management**

PA 5315	Public Performance Management	3
Choose 3 hours from the following:		3
PA 5314	Public Administration and Information Technology	
PA 5362	Alternative Public Service Delivery Systems	
Choose 3 hours from the following:		3
PA 5312	Program Evaluation and Administrative Statistical Analysis	
PA 5313	Public Sector Economics	
Total Hours		9

**Non-Profit Sector Leadership**

PA 5361	Introduction to the Nonprofit and Voluntary Sector	3
PA 5362	Alternative Public Service Delivery Systems	3
SOCI 5323	Grant Writing for the Social Sciences	3
Total Hours		9

**Urban Policy and Planning**

PA 5351	Urban Transportation Policy	3
GEO 5312	Managing Urbanization	3
Choose 3 hours from the following:		3
PA 5312	Program Evaluation and Administrative Statistical Analysis	
PA 5313	Public Sector Economics	
Total Hours		9

**Background**

For M.P.A. students who have a limited statistics background, three hours of credit in applied statistics will be required. Students may fulfill this requirement by enrolling in PA 5311. Students who do not have administrative experience must take PA 5389 Internship in Government. The internship can be waived by sending documentation of administrative experience directly to the M.P.A. director.

**Applied Research Project**

The applied research project (PA 5398) is a required research paper for the M.P.A. degree. Students who intend to register for PA 5398 must prepare a prospectus to include a statement of the problem, theoretical framework, research design, specification of data, and a representative bibliography. The proposal should be presented to the supervising instructor prior to registration for the course.

Prerequisite: A grade of "B" or better in PA 5397.

**Comprehensive Examination**

An oral comprehensive examination over the applied research project is required for completion of the M.P.A. degree.

Master's level courses in Public Administration: PA

**Courses Offered****Public Administration (PA)****PA 5300. Introduction to Public Policy and Administration.**

This course introduces students to the study and practice of US public administration and policy. It also focuses on the dynamics of the democratic governance process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5310. Public Finance Administration.**

This course examines the applied aspects of public finance including operating budgets, revenue estimation, capital budgeting, financial planning, budgetary decision-making, cost benefit analysis, and life-cycle costing. In addition, strategies for budget justification, presentation, and implementation are examined. The use of various budgetary tools and techniques are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5311. Introduction to Statistical Analysis.**

This course applies quantitative methods to problems faced by public administration practitioners. Topics include the use of descriptive and inferential statistics as they apply to decision-making in public management. Students gain hands-on experience with data collection, analysis, and interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5312. Program Evaluation and Administrative Statistical Analysis.**

This is an advanced course in the application of quantitative methods for the evaluation of public policies and programs. The course emphasizes the administrative and managerial environment. Prerequisite: PA 5311 or a graduate level statistics course, with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5313. Public Sector Economics.**

This course presents basic concepts of economics as applied to the public sector. Principles of economics for policy analysis and management are examined in the context of collective action, public choice, resource allocation, and service delivery. The course also examines the financing of national, state, and local governments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5314. Public Administration and Information Technology.**

This course explores the use of information technology in the public sector. It emphasizes the issues that public administrators need to know concerning the impact of information technology on their organizations. The course covers E-Democracy, E-Governance, Enterprise Architecture, Public Management Information Systems (PMIS), E-Procurement, and E-Commerce

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5315. Public Performance Management.**

This course examines public sector performance management and measurement as tools for improving strategic planning, resource allocation, organizational learning, and internal operational processes. It also examines accountability, managerial performance, and evaluation processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5320. Organizational Theory, Change, and Behavior.**

This course analyzes classic and contemporary literature on organizational theory and behavior in the public sector. Emphasis is placed on history and development of organizational theory and core concepts such as organizational culture, power, and change. The implications of organizational theory for democratic governance are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5330. Public Personnel Administration.**

This course introduces students to public personnel functions from a managerial perspective. Examples of topics covered include: recruitment and selection, performance evaluation, discipline, collective bargaining, classification, and compensation. Constructive leadership of government personnel that encourages a more competent, motivated, and representative administration workforce is emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5331. Labor Management Relations.**

This course examines the historical development of public employee unions and the effects of collective bargaining agreements on personnel policy development. Public laws concerning collective bargaining procedures and strategy on the part of public managers are covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5332. Management Practices in Public Personnel Administration.**

This course is a seminar-based examination of selected topics in public personnel administration including job analysis, position classification, test construction, performance appraisal, succession planning, and affirmative action. The role of the personnel office as a strategic partner in accomplishing organizational goals is also explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5340. Introduction to Public Law.**

This course examines the regulatory environment, legal requirements, and constraints that public officials face when carrying out their duties. The use of online research tools to find administrative materials and analyze public law issues is emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5350. Public Policy Processes.**

This course is an overview of the process of public policymaking including policy formulation and implementation. Emphasis is placed on actors in the policy process and on the political environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5351. Urban Transportation Policy.**

This course presents basic components of transportation policy and planning. In addition to building an understanding of the historic foundation of transportation policy, students explore the underlying concepts related to congestion management, transit and active transportation planning, and impacts on land use and sustainability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5352. Comparative Public Administration.**

This course examines differences in various national administrative systems and the role of international organizations. It explores differences that influence various public policy issues from countries around the world. Policy issues examined include poverty, human rights, health care, and the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5353. Ecology and the Politics of Sustainability.**

This course is an exploration of problems and policies dealing with air, water, waste, energy use, natural resources, sustainability, and global environmental issues. This class highlights the historical drivers of environmental policy. Implementation strategies, policy mechanisms, and compliance adherence are also examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5355. Environmental Policy.**

This course will introduce students to the public policy process and the details of U.S. environmental policy and administration. Problems and policies dealing with air, water, solid waste, hazardous waste, energy use, natural resources, climate change, sustainability, and global environmental governance will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PA 5361. Introduction to the Nonprofit and Voluntary Sector.**

This course provides a foundation for understanding the history, scope, and function of the American nonprofit and voluntary sector. It includes an examination of the conceptual and theoretical underpinnings of the sector, and assessment of the role of these organizations in society, and their impact on public policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5362. Alternative Public Service Delivery Systems.**

This course examines alternative delivery of public services. The reliance on market mechanisms, contracting out, and privatization are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5370. Public Management and Ethics.**

This course explores issues of morality and ethics in the public sector. It also considers subjects such as administrative discretion, the public interest, democratic values, and dissent. The course aims to formulate a frame of reference for judging behavior and clarifying our role and responsibility as moral agents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PA 5387. Research Practicum.**

This course uses structured group research to analyze a current policy, management, or administrative issue. A professor-led research team completes a final report detailing findings and recommendations for action. May be repeated once for additional credit. Instructor permission is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5388. Directed Reading and Research.**

This course guides students in directed reading and research on various topics in public policy and administration under the direction of a graduate faculty member. The course may be repeated once with a different emphasis for additional credit for a maximum of 6 credit hours. Instructor permission is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5389. Internship in Government.**

This course provides students with the opportunity to integrate classroom learning with practical experience. Students with little or no work experience related to public service are required to complete an internship. Students considering a career change should consider an internship. Instructor permission required. May be repeated once for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5390. Applied Research Methodology.**

This course is an introduction to applied research methods in the public sector. Topics include the scientific method, research design, measurement, qualitative research, and sampling. Data collection methods such as survey research, content analysis, and secondary data analysis are also covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PA 5397. Research Design and Proposal Development for Public Administration.**

This course prepares students for the demands of academic and professional writing. Students learn how to identify a public problem, develop a research purpose statement, and complete a literature review around a conceptual framework. This course prepares the student for their Applied Research Project (ARP). Prerequisite: PS 5390 with a grade of "B" or higher and instructor permission required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PA 5398. Applied Research Project.**

This course serves as the capstone experience for MPA students. Students complete an original and empirical Applied Research Project (ARP), complete an oral defense of the ARP, and prepare the ARP for publication. Prerequisite: PA 5397 with a grade of "B" or higher and instructor permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Minor in Legal Studies

For the graduate minor in legal studies, students are required to take:

LS 5320	Legal Research	3
Select 6 to 9 hours from the following:		6-9
LS 5330	Legal Theories and Analysis	
LS 5340	Litigation	
LS 5343	Family Law	
LS 5349	Business Organizations	
LS 5350	Legal Drafting	
LS 5351	Estates and Trusts	
LS 5353	Real Estate	
LS 5359	Alternative Dispute Resolution	
LS 5361	Criminal Law and Procedure	
LS 5363	Social Legislation	
LS 5371	Intellectual Property Law	
LS 5373	Contract Law	

Total Hours 9-12

Students must also meet with the director of the legal studies program prior to enrollment in these classes. The minor, by itself, does not constitute an ABA-approved program for paralegal study.

## Minor in Political Science

The graduate minor in political science requires nine hours of elective course work. Students are limited to selection of electives from among the following:

**Electives**

Select 9 hours from the following: 9

PS 5301	Approaches to the Study of Political Science
PS 5302	Political Research and Methodology
PS 5310	Studies in Ancient and Medieval Political Thought
PS 5311	Social Contract Theory
PS 5312	Roots of American Constitutionalism
PS 5313	Justice and Liberty in American Thought
PS 5315	Contemporary Perspectives in Modern Liberalism
PS 5316	The Crisis of Liberalism and The Future of Democracy
PS 5317	Theological Perspectives in Modern Democracy
PS 5318	The Problem of Power and the Crisis of Modernity
PS 5330A	Nuclear Weapons in International Politics
PS 5330B	Tocqueville and American Democracy
PS 5332	Problems in American Foreign Relations
PS 5334	Texas Politics
PS 5335	The Role of Interests in America
PS 5336	Property, Liberty, and Popular Sovereignty
PS 5337	American Political Culture
PS 5338	Cultural Discourse of American Politics
PS 5339	The American Presidency
PS 5340	Congress and the Legislative Process
PS 5341	Seminar in Constitutional Law and Theory
PS 5356	The British Political Order Since 1900
PS 5357	Russian Politics and Josef Stalin
PS 5358	Civil-Military Relations in Comparative Perspective
PS 5360	Economic Development in Developing Nations
PS 5361	Government and Politics of African States
PS 5375	Seminar in International Relations Theory
PS 5377	Problems in International Organizations
PS 5378	Problems in International Law
PS 5379	Problems in International Political Economy
PS 5380	International Conflict and Security
PS 5389	Internship in Government

Total Hours 9

## Certificate in Paralegal Studies

### Certificate Program

The paralegal studies certificate program is an ABA-approved, non-degree certificate program available to students who have a baccalaureate degree and a minimum 3.0 grade-point average (on a 4.0 scale) on the last 60 semester hours of undergraduate work and are currently pursuing a master's degree at Texas State. This certificate program is designed to prepare students to perform as highly qualified paralegals (also referred to as "legal assistants") with both a theoretical knowledge of substantive law as well as practical skills. A paralegal is not licensed to practice law but is trained to handle certain law related responsibilities under the supervision and direction of a licensed attorney. Applicants to this program must also successfully complete an interview with the director of the paralegal program. **This certificate program requires concurrent enrollment in the Master of Arts degree with a major in Legal Studies Program at Texas State University.**

## Course Work Requirements

To receive a certificate in the program, all students must successfully complete a 24-hour curriculum while maintaining an overall "B" average and must receive a "B" or better in each required course.

**Required Courses**

LS 5310	Introduction to the Paralegal Profession and Legal Technology	3
LS 5320	Legal Research	3
LS 5330	Legal Theories and Analysis	3
LS 5340	Litigation	3
LS 5350	Legal Drafting	3
LS 5389	Law Office Internship	3

**Electives**

Select 6 hours from the following: 6

LS 5341	Administrative Law
LS 5343	Family Law
LS 5349	Business Organizations
LS 5351	Estates and Trusts
LS 5353	Real Estate
LS 5359	Alternative Dispute Resolution
LS 5361	Criminal Law and Procedure
LS 5363	Social Legislation
LS 5371	Intellectual Property Law
LS 5373	Contract Law
LS 5379	Issues and Problems in Law

Total Hours 24

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Department of Psychology

Undergraduate Academic Center Room 253

T: 512.245.2526 F: 512.245.3153

<http://www.psych.txstate.edu/>

The goal of the Department of Psychology at Texas State is to foster competence in the methodological foundations and conduct of psychological research across a wide variety of settings. Focus is placed on learning interpersonal/research skills and statistical competencies relevant to the responsible and ethical conduct of both basic and applied psychological research. This program is appropriate for individuals wishing to work in research settings or intending to pursue a doctoral degree in Psychology.

The Department of Psychology is housed in the Undergraduate Academic Center (UAC), a LEED-certified building completed in June 2012. Current research facilities in the department include a saliva analysis laboratory, separate 40-channel and 64-channel EEG systems, Doppler imaging equipment, state-of-the-art observation rooms, a dedicated computer lab for research, and a variety of other faculty research labs used for studies on addiction, cognition, exercise, sleep, and many other health-related issues.



In accordance with the reclassification of Texas State as an Emerging Research University in January 2012, the Department of Psychology is committed to expanding its research agenda while retaining its lasting commitment to teaching. The department strongly supports the view that research and teaching are complimentary activities. Thus, our goal is to gain national and international recognition as a research-oriented teaching-intensive department.

## Master of Arts (M.A.)

- Major in Psychological Research (p. 1068)

## Minor

- Psychology (p. 1072)

## Certificate

- Forensic Psychology (p. 1072)

# Master of Arts (M.A.), Major in Psychological Research

## Major Programs

The master of arts (M.A.) with a major in psychological research is designed to foster competence in the methodological foundations and conduct of psychological research across a wide variety of settings. Students will gain expertise regarding the impact of biological, social, emotional, cognitive, and behavioral factors on psychological phenomena. Focus is placed on learning interpersonal/research skills and statistical competencies relevant to the responsible and ethical conduct of both basic and applied psychological research.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/psyrsc.html>.

## Course Work Requirements

The degree consists of 38 semester hours including:

### Common Core Courses

PSY 5198	Research Seminar (Taken twice)	2
PSY 5311	Univariate and Bivariate Statistics	3
PSY 5321	Multivariate Statistics	3
PSY 5324	Biological Bases of Behavior	3
PSY 5391	Research Methods & Experimental Design	3

### Thesis or Individual Study

Choose one option: 6

Thesis Option (6 hours minimum)

PSY 5199B	Thesis	
PSY 5299B	Thesis	
PSY 5399A	Thesis	
PSY 5399B	Thesis	
PSY 5599B	Thesis	
PSY 5999B	Thesis	

Individual Study Option

PSY 5366	Individual Study (Taken twice)	
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### Prescribed Elective Courses

Choose 18 hours from the following: 18

PSY 5306	Psychological Development: Theories & Research
PSY 5310	Advanced Abnormal Psychology
PSY 5314	Attitudes: Assessment and Change
PSY 5317	Group Processes and Interpersonal Dynamics
PSY 5318	Assessment in Psychology
PSY 5320	Principles of Measurement and Statistics
PSY 5334	Health Issues in Diverse Population
PSY 5335	Foundations of Health Psychology
PSY 5342	Professional Ethics and Standards of Practice
PSY 5343	Occupational Health
PSY 5345	Psychopharmacology
PSY 5348	Health Psychology: Prevention and Intervention
PSY 5352	Psychological Therapies
PSY 5360G	Forensic Psychology
PSY 5370	Learning, Cognition, and Motivation
PSY 5385	Industrial Social Psychology
PSY 5392	Program Evaluation
PSY 5395	Practicum I
PSY 5396	Practicum II
PSY 5398	Internship in Psychology

Total Hours 38

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.



## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) **or** PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Psychology: PSY

## Courses Offered

### Psychology (PSY)

#### PSY 5105. Practicum in Teaching Psychology.

This course will examine processes and strategies designed to improve the teaching and learning process. Students will be introduced to learning and instructional theory and selected concepts, issues, and strategies of instructional planning, delivery, management, and evaluation. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis. Prerequisite: Approval of Graduate Advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### PSY 5198. Research Seminar.

Taken in two consecutive semesters, this seminar provides an orientation to the graduate program and the steps required for thesis completion. Topics include the discussion of research interests, critiquing literature, and topic selection; developing and submitting a research proposal; selecting a thesis committee; and thesis completion and submission.

Restricted to M.A. students in Psychological Research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PSY 5199B. Thesis.

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### PSY 5299B. Thesis.

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### PSY 5306. Psychological Development: Theories & Research.

This course is an advanced coverage of biological, social, and cognitive development throughout the lifespan. Topics include cognitive developmental theory, sensory/perceptual development, language development, infant attachment, the development of gender roles, moral development, and issues related to aging. Prerequisite: PSY 3300 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5310. Advanced Abnormal Psychology.**

Critical analysis of the definition and classification of abnormal behavior and experiences and an in-depth study of theories and research on causes, remediation, and prevention. Prerequisite: PSY 3315 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5311. Univariate and Bivariate Statistics.**

This course introduces students to univariate and bivariate statistical concepts and techniques used in psychology research (e.g., probability, sampling distributions, t-tests, and analysis of variance, correlation). Emphasis is placed on developing skills in data analysis including the selection of appropriate techniques, using data analysis software, and interpretation of statistical results. Prerequisite: PSY 2301 with a grade of "C" or better

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**PSY 5314. Attitudes: Assessment and Change.**

This course reviews social cognitive theories and research on attitudes and behavior change, and examines the principles of persuasive communication. Topics covered include individual differences in information processing, risk assessment, decision making and factors moderating attitude-behavior consistency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5317. Group Processes and Interpersonal Dynamics.**

Designed to train future professionals in both the cognitive and personal issues related to group behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5318. Assessment in Psychology.**

The course will provide an overview of assessment instruments commonly used by psychologists and neuropsychologists in research and practice. Basic psychometrics such as validity and reliability also will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5320. Principles of Measurement and Statistics.**

The course emphasizes classical measurement theory, including reliability and validity of measurement instruments commonly used in psychology, and reviews descriptive statistics with a focus on correlation and regression. Prerequisite: Course in undergraduate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5321. Multivariate Statistics.**

This course introduces students to multivariate statistical techniques commonly used in psychological research such as analysis of variance and covariance, multiple regression, and factor analysis. Emphasis is placed on developing applied skills in data analysis: selection of appropriate statistical techniques, using data analysis software, and interpretation of statistical results. Prerequisite: PSY 5311 with a grade of "C" or better

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**PSY 5324. Biological Bases of Behavior.**

This course provides an overview of the nervous system structure and function appropriate to the overall field of Psychology in order to foster an appreciation of the biological determinants of behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5326. Neuropsychological Assessment.**

This course will introduce principles of neuropsychological assessment including assessment procedures, interpretation of results, neuropathology, and the range of neuropsychological functions to be assessed. This course will also cover the characteristics and administration of several neuropsychological assessment instruments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5334. Health Issues in Diverse Population.**

This course examines the influence of socio-cultural beliefs and perceptions on health behaviors and the use of health services. The various ways in which race, ethnicity, gender and social class are related to the delivery of health care and opportunities to facilitate health care to the most vulnerable are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5335. Foundations of Health Psychology.**

This course will utilize a biopsychosocial approach to understand the psychology of wellness and disease. Topics include stress, coping, pain, social support, and chronic illness. Special emphasis will focus on physiological responses, psychoneuroimmunology, and somatization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5342. Professional Ethics and Standards of Practice.**

This course will focus on the study of APA ethical principles and standards of practice with emphasis on their applicability to research. Ethical decision-making and research, landmark studies, legal cases, and controversies in the field will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5343. Occupational Health.**

This course focuses on promoting and maintaining the physical, mental, and social well-being of workers by promoting positive health behaviors, controlling risk factors, and facilitating the adaptation of work to people and people to their jobs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5345. Psychopharmacology.**

This course explores: (1) the reasons that humans and animals consume mind altering substances called psychoactive drugs, (2) the neuronal, chemical, and hormonal mechanisms underlying drug action, and (3) the environmental factors that modulate the impact of psychoactive drugs on emotional, cognitive, perceptual and behavioral expression in humans and animals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**PSY 5348. Health Psychology: Prevention and Intervention.**

This course will focus on primary, secondary and tertiary prevention and intervention strategies to enhance health and wellness. Topics will include health-promoting behaviors, risky health behaviors, theories of health behavior change, the process of medical care, and treatment adherence. Special emphasis will be on planning, implementation, and assessment of interventions. Prerequisites: PSY 5335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5352. Psychological Therapies.**

This survey course on evidence-based psychological interventions focuses on the active mechanisms by which therapies work and their application to specific diagnostic categories and conditions. Interpersonal, behavioral, cognitive-behavioral, and dialectical behavior therapies will be highlighted along with newer empirically-based therapies such as Acceptance and Commitment Therapy and mindfulness approaches

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5360G. Forensic Psychology.**

Examination of the relationships between psychology and the Criminal Justice system. Emphasis is placed on how psychology variables influence how individuals carry out their duties within the system. Sample topics include: (a) psychology and jury decision-making, (b) accuracy/impact of eyewitness testimony, and (c) how characteristics of defendants influence juries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 5360H. Psychology of Women.**

The course includes an in-depth examination of the development of women's roles and gender differences as well as a consideration of women's relationships, sexuality, employment, and diversity. Special topics such as women and violence will also be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 5360I. Cognitive Neuroscience.**

This course provides a comprehensive introduction to cognitive neuroscience: the study of the biological basis of cognitive processes such as perception, attention, memory, language, and decision-making. This is a seminar course that will cover both the theoretical constructs and also recent research that pertain to each topic. Prerequisite: PSY 3322 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360J. Research Seminar in Social Psychology.**

This seminar course provides an introduction to selected topics in social psychology. It covers the process of research planning: finding a topic, reviewing literature, designing a study, selecting measures, considering ethical issues, obtaining IRB approval, data collection, data analysis, manuscript preparation. It culminates with each student producing a research proposal. Graduate Standing in Psychology required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360K. Human Memory and Memory Disorders.**

This course provides a comprehensive overview of topics in human memory including different types of memory and brain structures involved. Special emphasis will be given to problems with memory including forgetting, aging memory, amnesia, and Alzheimer's disease. This course will cover both current theories and cutting-edge research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360L. The Psychology of Language.**

This course provides a grounding in the cognitive theories/models of the major areas of language research: acquisition, comprehension, and production. It also provides an overview of the cognitive processes involved in several specific topic areas in language, such as syntax, semantics, discourse, prosody, bilingualism, neuro-linguistics, sign language, and reading

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360M. Introduction to Psychophysiology.**

This course will provide an overview of the principles, theory, and applications of using physiological measures to study mental processes. This course will illustrate how the use of psychophysiological measurements can enhance our understanding of brain/mind/behavior relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5366. Individual Study.**

Students design and execute original research or engage in extensive fieldwork in the field of psychology under the supervision of a faculty member. May be repeated once for credit. Prerequisite: PSY 5391 and permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5370. Learning, Cognition, and Motivation.**

Basic problems in the acquisition of responses, treating with such constructs as reinforcement, extinction, retention, forgetting, problem solving, motivation, and punishment. Major theories are treated through attention to classical experiments, but greatest emphasis is given to contemporary research. See Educational Psychology 5370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5385. Industrial Social Psychology.**

Research findings and theoretical concepts concerned with social-structured problems in organizations. Topics covered include: the system concept, characteristics of social organization, organizational effectiveness, leadership communications, and decision-making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5391. Research Methods & Experimental Design.**

Problems in psychology, emphasis on research procedures. A research project is required of each student. Restricted to M.A. students in Psychological Research

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5392. Program Evaluation.**

Introduces the theory and techniques of program evaluation. Addresses all phases of program evaluations, including: conceptualization, planning, implementation, methodological and ethical issues, and analyzing and reporting results. Emphasis is placed on experimental and quasi-experimental methods commonly used in the evaluation of health programs. Prerequisite: PSY 5320 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5395. Practicum I.**

Structured practical experience in health psychology at private or public setting. Supervision will be provided by a member of the graduate faculty and by a key individual at the site. Graded on a credit (CR, no-credit (F) basis. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5396. Practicum II.**

Structured practical experience in health psychology at private or public setting. Supervision will be provided both by a member of the graduate faculty and by a key individual at the site. Graded on a credit (CR), no-credit (F) basis. Prerequisite: PSY 5395

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5398. Internship in Psychology.**

Students engage in extensive field work in a professional setting related to psychology. Prerequisites: PSY 5311, PSY 5321 & PSY 5391 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in PSY 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5321 and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5399B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5599B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5999B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Psychology

The department offers psychology courses that may be used as a minor, split minor, or included in other programs. Twelve hours of graduate credit are required, including:

PSY 5370	Learning, Cognition, and Motivation	3
Advisor-approved psychology electives		9
Total Hours		12

## Certificate in Forensic Psychology

### Course Work Requirements

PSY 5360G	Forensic Psychology <sup>1</sup>	3
Select three of the following:		9
PSY 5310	Advanced Abnormal Psychology	
PSY 5317	Group Processes and Interpersonal Dynamics	
PSY 5345	Psychopharmacology	
PSY 5370	Learning, Cognition, and Motivation	
PSY 5385	Industrial Social Psychology	
Select one of the following:		3
CJ 5335	Advanced Crime Theory	
CJ 5321	Current Legal Issues in Criminal Justice	
CJ 5380A	Ethics and the Criminal Justice System	
CJ 5380H	Police Problem Solving Methodologies	
CJ 5380I	Race, Class, and Crime	
Total Hours		15

<sup>1</sup> This is the foundation course of our forensic psychology certificate program and will be required of all certificate students unless our forensic psychology advisory committee determines that the student possesses exceptional knowledge of the field.

Students must maintain a 3.0 GPA with no grade lower than a C; they must complete the program within four years, and must submit a portfolio of relevant work with a written synthesis as an exit exam.

## Admission Policy

For information regarding admission application requirements and deadlines, please see The Graduate College website at [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps/TXST\\_Cert.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps/TXST_Cert.html).

## Department of Sociology

Undergraduate Academic Center Room 449  
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[www.soci.txstate.edu](http://www.soci.txstate.edu) (<http://www.soci.txstate.edu>)



The Department of Sociology at Texas State consists of a student-friendly faculty with wide-ranging specialties. Among the faculty's research interests are gender and the workplace, child/adolescent health, adolescent sexuality, demography, community organization, multicultural relations, industrial organization, sports and leisure, folklore, social stratification and inequality, popular culture, sociology of popular music and teaching strategies and assessment. The sociology faculty use both qualitative and quantitative research methods, including survey research, in-depth interviews, focus groups, archival investigations, and statistical analysis of secondary data sets. Faculty members have published numerous articles, book chapters, and books in their areas of interest. In addition, several faculty members have received national/international recognition from within academic circles and the popular press for their research.

The faculty takes pride in the teaching reputation of the department. In 1990 the department was awarded the American Sociological Association Distinguished Contributions to Teaching Award. In addition, many faculty members have won major teaching awards.

## Mission Statement

Our mission is to provide an environment conducive to intellectual exchange characterized by innovative and outstanding:

- Teaching and curricula
- Service to students and community
- Scholarship and research
- Sociological practice and internships
- Commitment to multiculturalism and diversity

## Vision Statement

Our vision is to become a premier sociology department providing nationally and internationally recognized academic programs.

## Background

An applicant who does not have undergraduate sociology courses in social theory, statistics, computer applications, and social research must complete undergraduate courses in each of these areas. Depending on the extent of undergraduate education in sociology or related fields, students may be permitted to take up to six hours of selected graduate courses before completing these undergraduate requirements.

## Student Fitness and Performance

### Program Standards

Students enrolled in all academic programs in the Department of Sociology must maintain high scholastic standards and develop a mastery of the knowledge and methods of the discipline. Students are expected to demonstrate emotional and mental fitness in their interactions with others, use skills and methods that are generally accepted by others in the profession, and conform to the American Sociological Association's Code of Ethics, the Texas State University Honor Code, and the Texas State University Code of Student Conduct. A student's acceptance in any program does not guarantee the student's fitness to remain in that program. The faculty is responsible for verifying that only those students who continue to meet program standards are allowed to continue in any program.

## Evaluation of Student Fitness and Performance

Members of the faculty, using their professional judgments, evaluate student fitness and performance continuously. The criteria used by the faculty to make such judgments include instructors' observations of student performance in class or in activities related to courses, evaluations of student performance on theses and practica, site supervisors' evaluations of student performance in practica, and the codes of ethics noted above. Students who are not making satisfactory progress or who are not meeting program standards should consider withdrawing from the program.

In this context, the term "satisfactory progress" refers to an academic judgment made regarding the student's fitness and performance. It is a judgment that the student has failed to meet program standards rather than a judgment made on the basis of the student's violation of valid rules of conduct. Disciplinary matters are referred to Student Justice.

## Student Review Process

If a faculty member believes that a student is not making satisfactory progress or meeting program standards, he or she should discuss the situation with the student. If the faculty member believes that the student's conduct cannot improve to acceptable standards, the faculty member should refer the student to the program standards committee. The program standards committee consists of three faculty members appointed by the department chair in consultation with the senior faculty.

The committee will notify the student of the reasons that he or she is not making satisfactory progress or meeting program standards and will give the student an opportunity to meet with the committee to respond and to present information and witnesses to the committee. The committee will also meet with the faculty member who referred the student to the committee. After considering the matter, and within ten working days of meeting with the student, the committee will report to the student and the chair. The committee will recommend that the student either be allowed to remain in the program or be removed from the program. The committee may make other recommendations, such as placing restrictions or conditions on the student's continuing in the program. Within ten working days of receiving the committee's recommendations, the student will notify the chair of the student's acceptance or rejection of the committee's recommendation.

Within ten working days of receiving the committee's recommendation, the chair will make a decision as to the student's continued presence in the program. Before making the decision, the chair will give the student an opportunity to meet with the chair and to offer information on the student's behalf. However, the chair need not meet with the student before making a decision if the chair has given the student a reasonable opportunity to meet, and the student has either failed or refused to meet. The chair will notify the student of the decision.

If the student is dissatisfied with the chair's decision, he or she may appeal to the dean of the College of Liberal Arts. However, in order for an appeal to be considered, the student must submit a written notice for an appeal to the chair and to the dean within ten working days of receiving the chair's decision. The dean will consider the matter based on information compiled by the chair and notify the student of his or her decision within ten working days of the dean's receipt of the appeal from the chair. The dean may meet with the student and give the student an opportunity to address the issues. The dean's decision is final.



## Financial Assistance

The Department of Sociology provides financial aid to selected students by employing graduate students as instructional assistants and research assistants. The Graduate College can provide information about graduate scholarships.

## Master of Arts (M.A.)

- Major in Sociology (p. 1095)
- Major in Sustainability Studies (p. 1101)

## Master of Science (M.S.)

- Major in Applied Sociology (p. 1074)
- Major in Dementia and Aging Studies (p. 1078)
- Major in Sustainability Studies (p. 1084)

## Master of Arts in Interdisciplinary Studies (M.A.I.S.)

- Major in Interdisciplinary Studies with a Concentration in Sustainability (p. 1091)

## Master of Science in Interdisciplinary Studies (M.S.I.S)

- Major in Interdisciplinary Studies with a Concentration in Sustainability (p. 1093)

## Minor

- Sociology (p. 1107)

## Master of Science (M.S.), Major in Applied Sociology

### Major Program

The master of science (M.S.) with a major in applied sociology is designed to prepare students for careers in state and federal government agencies, large and small businesses and non-profit organizations. Graduates of this program will have the skills and knowledge necessary to compete in a rapidly changing job market, having mastered the techniques of both qualitative and quantitative research, general statistical analysis, and impact analysis.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/apsoc.html>.

## Degree Requirements

This applied option has degree requirements of 37 semester hours, including:

SOCI 5110	Proseminar in Sociology	1
SOCI 5306	Sociological Theory Seminar	3
SOCI 5307	Advanced Statistics for the Social Sciences	3
SOCI 5308	Seminar in Research Methods	3
SOCI 5309	Seminar in Qualitative Research Methods	3

SOCI 5322	Impact Analysis Research	3
SOCI 5323	Grant Writing for the Social Sciences	3
SOCI 5398A & SOCI 5398B	Applied Research Practicum and Applied Research Practicum	6
Sociology Electives (Choose 6 hours)		6
SOCI 5316	Seminar in Deviation and Social Problems	
SOCI 5319	Seminar in Social Psychology	
SOCI 5320	Seminar in Demography	
SOCI 5337	Seminar in the Family	
SOCI 5343	Seminar in Criminology	
SOCI 5353	Seminar in the Community	
SOCI 5358	Seminar in the Sociology of Work and Occupations	
SOCI 5359	Seminar in Drugs and Society	
SOCI 5363	Seminar in Medical Sociology	
SOCI 5368	Seminar in Environmental Sociology	
SOCI 5370	Seminar in Multi-Cultural Relations	
SOCI 5371	Directed Study	
SOCI 5383	Seminar on Aging	
SOCI 5388F	Seminar in Poverty	
SOCI 5388G	Seminar in Food and Society	
Choose 6 hours of open electives (may include Sociology courses)		6
Total Hours		37

No minor is required, but students may choose a minor.

The course work for the applied sociology major culminates in the two-course practicum, SOCI 5398A/SOCI 5398B. Each student will initiate a site-based research project to collect impact analysis or assessment data of interest to site administrators. During a subsequent term, the student will complete a professional research paper based on the data. Students will be required to have a practicum proposal approved by their committee prior to beginning the research paper. Although students' research projects will vary, each will combine the emphases of the program – sociological methods and statistics, needs assessment, impact analysis, and grant writing – with the collection and analysis of quantitative and/or qualitative data.

All students earning the M.S. with a major in applied sociology must pass one or more comprehensive examinations, either written, oral, or both at the end of their course work. Defense of the professional research paper, as well as knowledge of course work, will be the foci of this comprehensive examination.

Master's level courses in Sociology: SOCI

## Courses Offered

### Sociology (SOCI)

#### SOCI 5105. Practicum in Teaching Sociology.

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**SOCI 5110. Proseminar in Sociology.**

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SOCI 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics.

The second half of the course is devoted to contemporary theory.

Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes.

Prerequisite: SOCI 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders.

Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the “Global south.” The course will focus on factors affecting development and underdevelopment around the world  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student’s initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

# Master of Science (M.S.), Major in Dementia and Aging Studies

## Major Program

This interdisciplinary, online degree offers cutting-edge knowledge about dementia and aging studies, including evolving issues related to the care of persons with dementia and other topics related to aging and the life course.

Housed in the Department of Sociology, this program also includes coursework from the Department of Communication Studies, the School of Health Administration, and the School of Social Work.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/das.html>.

## Degree Requirements

The program is composed of three tracks:

1. Dementia and long-term care
2. Practitioner
3. Research

Each offers a different pathway for students upon graduation.

## Course Work Requirements

All students pursuing an M.S. in dementia and aging studies must complete the required core, which consists of the following 12 hours:

### Dementia and Aging Studies Core

SOCI 5351	Introduction to Dementia Studies	3
SOCI 5352	Dementia and Caregiving	3
SOCI 5355	The Social Psychology of Dementia	3
SOCI 5383	Seminar on Aging	3
Total Hours		12

### Dementia and Long-term Care Track

Dementia and long-term care allies the long-term care certificate with core course work from the Department of Sociology to provide a social model of care approach to students who want to work in extended living environments when they graduate. Students in the dementia and long term care track take the following courses:

Dementia and Aging Studies Core		12
<b>Dementia and Long-term Care Courses</b>		
LTCA 5322	Environmental Management in Long Term Care	3
LTCA 5323	Governance Management in Long Term Care	3
LTCA 5324	Personnel Management in Long Term Care	3
LTCA 5325	Resident Care Management in Long Term Care	3
LTCA 5335	Financial Management in Long Term Care	3
LTCA 5681	Internship in Long Term Care	6
Total Hours		33

### Practitioner Track

The practitioner track offers an in-depth education involving course work from all participating departments and allowing students to work in any



facility or organization whose concern is the health and well-being of the individuals affected by dementia. Students in the practitioner track take the following courses:

Dementia and Aging Studies Core	12
<b>Practitioner Courses</b>	
Choose 21 hours from the following:	21
CDIS 5380 Communication and Aging	
LTCA 5322 Environmental Management in Long Term Care	
LTCA 5323 Governance Management in Long Term Care	
LTCA 5324 Personnel Management in Long Term Care	
LTCA 5325 Resident Care Management in Long Term Care	
LTCA 5335 Financial Management in Long Term Care	
LTCA 5681 Internship in Long Term Care	
SOCI 5354 Theoretical Perspectives in Aging and Dementia	
SOCI 5356 End of Life Care	
SOCI 5357 Gender and Aging in Society	
SOCI 5361 Aging and Dementia: Racial and Ethnic Minorities	
SOCI 5362 Rural Aging and Dementia	
SOCI 5363 Seminar in Medical Sociology	
SOCI 5388I Clinical Sociology: Counseling the Elderly	
SOWK 5328 Interdisciplinary Perspectives on Aging	
<b>Total Hours</b>	<b>33</b>

### Research Track

The research track offers masters-level research courses, as well as core course work, to prepare students for doctoral programs in gerontology, sociology, and related fields. Students in the research track take the following courses:

Dementia and Aging Studies Core	12
<b>Research Courses</b>	
SOCI 5307 Advanced Statistics for the Social Sciences	3
SOCI 5308 Seminar in Research Methods	3
or SOCI 5309 Seminar in Qualitative Research Methods	
Choose 9 hours from the following electives:	9
CDIS 5380 Communication and Aging	
SOCI 5308 Seminar in Research Methods	
SOCI 5309 Seminar in Qualitative Research Methods	
SOCI 5318 Seminar in Advanced Data Applications	
SOCI 5354 Theoretical Perspectives in Aging and Dementia	
SOCI 5356 End of Life Care	
SOCI 5357 Gender and Aging in Society	
SOCI 5361 Aging and Dementia: Racial and Ethnic Minorities	
SOCI 5362 Rural Aging and Dementia	
SOCI 5363 Seminar in Medical Sociology	
SOCI 5388I Clinical Sociology: Counseling the Elderly	
SOWK 5328 Interdisciplinary Perspectives on Aging	
<b>Thesis Courses</b>	
Choose a minimum 6 hours	6
SOCI 5199B Thesis	
SOCI 5299B Thesis	
SOCI 5399A Thesis	
SOCI 5399B Thesis	

SOCI 5599B Thesis	
SOCI 5999B Thesis	
<b>Total Hours</b>	<b>33</b>

### Comprehensive Exams

Students in the practitioner and long-term care tracks must pass a comprehensive examination at the end of their course work. Students completing the research track must pass a comprehensive exam and defend their thesis at the end of their course work.

Students will be expected to demonstrate knowledge of material from their course work.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

### Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

### Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

### Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to

enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Sociology and related disciplines: CDIS (p. 1080), LTCA (p. 1080), SOCI (p. 1081)

## Courses Offered

### Communication Disorders (CDIS)

*For dementia and aging studies majors only.*

### CDIS 5380. Communication and Aging.

The influx of senior citizens in our population will require preparation for the increased incidence of communication problems due to normal and pathological aging processes. This course will address how aging affects communication, how communication disorders manifest in the aging population, and implications for professionals working with older adults. This course is restricted to non-CDIS major graduate students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

### Long Term Care Administration

#### LTCA 5302. Elder Abuse and Mistreatment.

This course provides an introductory overview of key theories, concepts/principles, issues, practices and challenges in elder abuse and mistreatment (EA/M). Course content includes: definitions and theories, incidence and prevalence, risk/protective factors, assessment, prevention, intervention, factors affecting screening/reporting, and the impact of EA/M on victims, caregivers, family and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### LTCA 5305. Environmental Design for Dementia.

The potential of the physical environment to play an active role in supporting independence, stimulation, and life quality for individuals with dementia will be explored in this course. Emphasis will be placed on principles behind environmental design and the importance of utilizing the physical environment as a therapeutic tool

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### LTCA 5322. Environmental Management in Long Term Care.

Students will compare performance analyses of long-term care facilities with a focus on organizational culture, and internal and external customer satisfaction. Plans of managerial action to maximize customer satisfaction will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### LTCA 5323. Governance Management in Long Term Care.

Focuses on regulations for the operation of long term care facilities as promulgated by state and federal governments. Reviews the minimum requirements for licensure and the standards for Medicaid certification in Texas. Also examines specific activities and functions regarding accountability and enforcement procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### LTCA 5324. Personnel Management in Long Term Care.

An examination of management issues in long-term care primarily in the critical areas of human resources, public relations, and marketing. Examples include staff recruitment and retention programs, training needs analysis, and marketing plan formulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

#### LTCA 5325. Resident Care Management in Long Term Care.

Administratively oriented content related to nursing care, quality indicator, and geriatric pharmacology utilized in long term care facilities. The course content reflects the relative legislative requirements mandated for nursing homes and other long-term care facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**LTCA 5335. Financial Management in Long Term Care.**

Students will examine the fiscal performance of selected facilities utilizing data from annual Medicaid cost reports with a focus on revenue enhancement and census development. Students will contrast various systems for determination of reimbursement and use reimbursement issues in a strategic planning sense

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5681. Internship in Long Term Care.**

An internship in which the student works directly with a licensed nursing facility administrator in a licensed long-term care facility. Students will be exposed to all aspects of facility operation and management. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 0 Lecture Contact Hours. 24 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Sociology (SOCl)****SOCl 5105. Practicum in Teaching Sociology.**

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**SOCl 5110. Proseminar in Sociology.**

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**SOCl 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCl 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCl 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**SOCl 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics. The second half of the course is devoted to contemporary theory. Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes.

Prerequisite: SOCl 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCl 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders. Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the "Global south." The course will focus on factors affecting development and underdevelopment around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Sustainability Studies

### Major Program

#### Sustainability Studies

The degree is specifically designed to prepare committed leaders to address emerging sustainability issues. Students completing the program will have the technical skills to formulate and solve problems at the appropriate scale, as well as the breadth of vision to recognize the interconnectedness and complexity of human-environment systems. Graduates will be prepared for admission into strong doctoral programs or professional schools, and important positions in the growing field of sustainability-related careers within local, state, or federal government, regulatory agencies, non-governmental organizations, consulting firms and within relevant industries. The program is available to graduate students seeking a more diversified program of study than is generally available for students specializing in a single discipline. The program is open to any qualified graduate student, and is particularly relevant for those wishing to improve their subject matter competence in more than one discipline. The M.S. in Sustainability Studies is designed for students inclined toward social sciences, natural sciences, economics, policy,

ethics or related fields. The program is tailored to accommodate both full-time and part-time graduate students.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sust.html>.

## Degree Requirements

There are two options, thesis and non-thesis, for earning the master of science (M.S.) degree with a major in sustainability studies.

### Course Work Requirements

#### Thesis Option

The thesis option has degree requirements of a minimum of 36 hours, including:

#### Required Courses

SUST 5301	Seminar in Sustainability	3
PHIL 5323	Environmental Ethics	3

#### Methods Course

Select one of the following: 3-4

ANTH 5305	Anthropological Statistics	
FCS 5302J	Statistics and Data Analysis for Family and Consumer Sciences	
GEO 5300	Applied Research Design and Techniques	
GEO 5418	Geographic Information Systems I	
PA 5390	Applied Research Methodology	
PS 5302	Political Research and Methodology	
SOCI 5307	Advanced Statistics for the Social Sciences	
SOCI 5308	Seminar in Research Methods	
SOCI 5309	Seminar in Qualitative Research Methods	

#### Prescribed Electives: Policy, Law, Leadership, and Society

Select one of the following: 3

BIO 5350M	Wildlife Policy and Law in North America	
BIO 5362	Environmental Impact Analysis	
BIO 7360U	Sustainability in a Changing World	
ENG 5353	Studies in Medieval Literature	
FCS 5305	Sustainable Housing	
GEO 5312	Managing Urbanization	
GEO 5313	Environmental Management	
GEO 5314	Geographic Elements of Environmental Law	
GEO 5329	Historical Geography of the Environment	
MCS 5342	Sustainable Consumer Economy	
PA 5353	Ecology and the Politics of Sustainability	
PA 5355	Environmental Policy	
PHIL 5329	Food Ethics	
SOCI 5353	Seminar in the Community	
SOCI 5367	Seminar in Sustainable Cities	
SOCI 5368	Seminar in Environmental Sociology	
SOCI 5388G	Seminar in Food and Society	
SOCI 5390	Seminar in Globalization and Development	
SOCI 5395	Global Insecurity	

#### Prescribed Electives: Science and the Environment

Select one of the following: 3-4

AG 5370	Special Problems in Technical Agriculture	
BIO 5415	Ichthyology	
BIO 5470	Limnology	
FCS 5307	Sustainable Lighting	
MCS 5303	Sustainable Textiles	
GEO 5334	Applied Water Resources	
TECH 5382	Industrial Ecology and Sustainability Engineering	

**Free Electives** 15

**Thesis**

Select minimum 6 hours 6

SUST 5399A	Thesis	
SUST 5399B	Thesis	

**Total Hours** 36-38

#### Non-Thesis Option

The non-thesis option has degree requirements of a minimum of 36 hours, including:

#### Required Courses

SUST 5301	Seminar in Sustainability	3
PHIL 5323	Environmental Ethics	3

#### Methods Course

Select one of the following: 3-4

ANTH 5305	Anthropological Statistics	
FCS 5302J	Statistics and Data Analysis for Family and Consumer Sciences	
GEO 5300	Applied Research Design and Techniques	
GEO 5418	Geographic Information Systems I	
PA 5390	Applied Research Methodology	
PS 5302	Political Research and Methodology	
SOCI 5307	Advanced Statistics for the Social Sciences	
SOCI 5308	Seminar in Research Methods	
SOCI 5309	Seminar in Qualitative Research Methods	

#### Prescribed Electives: Policy, Law, Leadership, and Society

Select one of the following: 3

BIO 5350M	Wildlife Policy and Law in North America	
BIO 5362	Environmental Impact Analysis	
BIO 7360U	Sustainability in a Changing World	
ENG 5353	Studies in Medieval Literature	
FCS 5305	Sustainable Housing	
GEO 5312	Managing Urbanization	
GEO 5313	Environmental Management	
GEO 5314	Geographic Elements of Environmental Law	
GEO 5329	Historical Geography of the Environment	
MCS 5342	Sustainable Consumer Economy	
PA 5353	Ecology and the Politics of Sustainability	
PA 5355	Environmental Policy	
PHIL 5329	Food Ethics	
SOCI 5353	Seminar in the Community	
SOCI 5367	Seminar in Sustainable Cities	
SOCI 5368	Seminar in Environmental Sociology	
SOCI 5388G	Seminar in Food and Society	

SOCI 5390	Seminar in Globalization and Development	
SOCI 5395	Global Insecurity	
<b>Prescribed Electives: Science and the Environment</b>		
Select one of the following:		3-4
AG 5370	Special Problems in Technical Agriculture	
BIO 5415	Ichthyology	
BIO 5470	Limnology	
FCS 5307	Sustainable Lighting	
MCS 5303	Sustainable Textiles	
GEO 5334	Applied Water Resources	
TECH 5382	Industrial Ecology and Sustainability Engineering	
<b>Free Electives</b>		18
<b>Professional Project</b>		
Select minimum 3 hours		3
SUST 5398	Professional Project	
<b>Total Hours</b>		36-38

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Sustainability Studies: SUST (p. 1087), SOCI (p. 1087)

## Sustainability Studies (SUST)

### SUST 5197. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5297. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5301. Seminar in Sustainability.

The seminar in sustainability is an opportunity for students to learn about issues from a wide-ranging set of perspectives. The seminar is, by design, interdisciplinary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5397. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5398. Professional Project.

This course involves individual work related to a professional topic or project with specific guidance from graduate faculty. The project requires the completion of a rigorous paper that is the culmination of the final paper/project for the non-thesis degree in Sustainability Studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5399A. Thesis.

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in SUST 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5399B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5599B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5999B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Sociology (SOCI)

### SOCI 5105. Practicum in Teaching Sociology.

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

### SOCI 5110. Proseminar in Sociology.

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

### SOCI 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SOCI 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**SOCI 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SOCI 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics. The second half of the course is devoted to contemporary theory. Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes. Prerequisite: SOCI 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders. Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the "Global south." The course will focus on factors affecting development and underdevelopment around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Arts in Interdisciplinary Studies (M.A.I.S.), Major in Interdisciplinary Studies

### Major Program Sustainability Studies

This degree is specifically designed to prepare committed leaders to address emerging sustainability issues. Students completing the program will have the technical skills to formulate and solve problems at the appropriate scale, as well as the breadth of vision to recognize the interconnectedness and complexity of human-environment systems. Graduates will be prepared for admission into strong doctoral programs or professional schools, and important positions in the growing field of

sustainability-related careers within local, state, or federal government, regulatory agencies, non-governmental organizations, consulting firms and within relevant industries. The program is available to graduate students seeking a more diversified program of study than is generally available for students specializing in a single discipline. The program is open to any qualified graduate student, and is particularly relevant for those wishing to improve their subject matter competence in more than one discipline. The M.A.I.S. degree is best suited to students interested more in social sciences, business, humanities and planning. The program is tailored to accommodate both full-time and part-time graduate students.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sust.html>. (<http://www.gradcollege.txstate.edu/sust.html>)

## Degree Requirements

### Non-thesis Option

<b>Entry Module Course Work</b>	6
Choose 6 hours of Graduate Advisor Approved Electives, preferably in methodology	
<b>Academic Module Course Work</b>	27
Choose 27 hours of Graduate Advisor Approved Electives	
<b>Exit Module Course Work</b>	6
Choose 6 hours of Graduate Advisor Approved Electives <sup>1</sup>	
<b>Total Hours</b>	<b>39</b>

<sup>1</sup> In consultation with the graduate advisor, the student will select a 3-hour course in which they will be directed to write a professional paper and complete a comprehensive exam involving presentation of the paper to the student's master's committee.

### Thesis Option

<b>Entry Module Course Work</b>	6
Choose 6 hours of Graduate Advisor Approved Electives, preferably in methodology	
<b>Academic Module Course Work</b>	27
Choose 27 hours of Graduate Advisor Approved Electives	
<b>Thesis Course Work</b>	6
Choose a minimum of 6 hours	
IDS 5199B Thesis	
IDS 5299B Thesis	
IDS 5399A Thesis	
IDS 5399B Thesis	
IDS 5599B Thesis	
IDS 5999B Thesis	
<b>Total Hours</b>	<b>39</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis*

or *Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Interdisciplinary Studies: IDS (p. 1092)

## Courses Offered

### Interdisciplinary Studies (IDS)

#### IDS 5191. Seminar in Interdisciplinary Studies.

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

#### IDS 5198. Independent Interdisciplinary Research.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter



**IDS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5291. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5298. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5391. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5398. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in IDS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science in Interdisciplinary Studies (M.S.I.S.), Major in Interdisciplinary Studies

### Major Program Sustainability Studies

The degree is specifically designed to prepare committed leaders to address emerging sustainability issues. Students completing the program will have the technical skills to formulate and solve problems at the appropriate scale, as well as the breadth of vision to recognize the interconnectedness and complexity of human-environment systems. Graduates will be prepared for admission into strong doctoral programs or professional schools, and important positions in the growing field of sustainability-related careers within local, state, or federal government, regulatory agencies, non-governmental organizations, consulting firms and within relevant industries. The program is available to graduate students seeking a more diversified program of study than is generally available for students specializing in a single discipline. The program is open to any qualified graduate student, and is particularly relevant for those wishing to improve their subject matter competence in more than one discipline. The M.S.I.S. degree is best suited to students wishing to focus more on the natural sciences. The program is tailored to accommodate both full-time and part-time graduate students.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sust.html>.

### Degree Requirements

#### Non-thesis Option

<b>Entry Module Course Work</b>	<b>6</b>
Choose 6 hours of Graduate Advisor Approved Electives, preferably in methodology	
<b>Academic Module Course Work</b>	<b>27</b>
Choose 27 hours of Graduate Advisor Approved Electives	
<b>Exit Module Course Work</b>	<b>6</b>
Choose 6 hours of Graduate Advisor Approved Electives <sup>1</sup>	
<b>Total Hours</b>	<b>39</b>



<sup>1</sup> In consultation with the graduate advisor, the student will select a 3-hour course in which they will be directed to write a professional paper and complete a comprehensive exam involving presentation of the paper to the student's master's committee.

## Thesis Option

<b>Entry Module Course Work</b>	6
Choose 6 hours of Graduate Advisor Approved Electives, preferably in methodology	
<b>Academic Module Course Work</b>	27
Choose 27 hours of Graduate Advisor Approved Electives	
<b>Thesis Course Work</b>	6
Choose a minimum of 6 hours	
IDS 5199B Thesis	
IDS 5299B Thesis	
IDS 5399A Thesis	
IDS 5399B Thesis	
IDS 5599B Thesis	
IDS 5999B Thesis	
<b>Total Hours</b>	<b>39</b>

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject

matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the

personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Interdisciplinary Studies: IDS (p. 1095)

## Courses Offered

### Interdisciplinary Studies (IDS)

#### IDS 5191. Seminar in Interdisciplinary Studies.

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5198. Independent Interdisciplinary Research.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### IDS 5291. Seminar in Interdisciplinary Studies.

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5298. Independent Interdisciplinary Research.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### IDS 5391. Seminar in Interdisciplinary Studies.

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5398. Independent Interdisciplinary Research.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### IDS 5399A. Thesis.

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in IDS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### IDS 5399B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### IDS 5599B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### IDS 5999B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Sociology

### Major Program

The master of arts (M.A.) degree with a major in sociology has three goals. The first goal is to prepare graduates for a career in one of a number of fields, including but not limited to corporate research, personnel work, administration, and data analysis. The second goal is to prepare graduates to teach in community colleges. The third goal is to provide a sound general background for those who anticipate further graduate training beyond the master's degree.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/soci.html>.

## Degree Requirements

There are two options, thesis and non-thesis, for earning the master of arts (M.A.) degree with a major in sociology.

### Course Work Requirements

#### Thesis Option

The thesis option has degree requirements of a minimum of 37 hours, including:

#### Required Courses

SOCI 5110	Proseminar in Sociology	1
SOCI 5306	Sociological Theory Seminar	3
SOCI 5307	Advanced Statistics for the Social Sciences	3
SOCI 5308	Seminar in Research Methods	3
SOCI 5309	Seminar in Qualitative Research Methods	3

#### Elective Courses

Choose 12 hours from the following: 12

SOCI 5316	Seminar in Deviation and Social Problems
SOCI 5319	Seminar in Social Psychology
SOCI 5320	Seminar in Demography
SOCI 5322	Impact Analysis Research
SOCI 5323	Grant Writing for the Social Sciences
SOCI 5337	Seminar in the Family
SOCI 5343	Seminar in Criminology
SOCI 5353	Seminar in the Community
SOCI 5358	Seminar in the Sociology of Work and Occupations
SOCI 5363	Seminar in Medical Sociology
SOCI 5368	Seminar in Environmental Sociology
SOCI 5370	Seminar in Multi-Cultural Relations
SOCI 5371	Directed Study
SOCI 5388F	Seminar in Poverty
SOCI 5388G	Seminar in Food and Society

#### Thesis Courses

Choose a minimum 6 hours 6

SOCI 5199B	Thesis
SOCI 5299B	Thesis
SOCI 5399A	Thesis
SOCI 5399B	Thesis
SOCI 5599B	Thesis
SOCI 5999B	Thesis

#### Minor Courses

Choose an advisor-approved 6-hour minor 6

Total Hours 37

Students will be required to have a thesis proposal approved by their thesis committee prior to beginning the thesis.

### Non-Thesis Option

A non-thesis option, which does not have a minor, is also available, with degree requirements of 37 semester hours, including:

#### Required Courses

SOCI 5110	Proseminar in Sociology	1
SOCI 5306	Sociological Theory Seminar	3
SOCI 5307	Advanced Statistics for the Social Sciences	3
SOCI 5308	Seminar in Research Methods	3
SOCI 5309	Seminar in Qualitative Research Methods	3
SOCI 5320	Seminar in Demography	3
or SOCI 5388H Advanced Statistical Analysis II		

#### Elective Courses<sup>1</sup>

Choose 15 hours from the following: 15

SOCI 5316	Seminar in Deviation and Social Problems
SOCI 5319	Seminar in Social Psychology
SOCI 5322	Impact Analysis Research
SOCI 5323	Grant Writing for the Social Sciences
SOCI 5337	Seminar in the Family
SOCI 5343	Seminar in Criminology
SOCI 5353	Seminar in the Community
SOCI 5358	Seminar in the Sociology of Work and Occupations
SOCI 5359	Seminar in Drugs and Society
SOCI 5363	Seminar in Medical Sociology
SOCI 5368	Seminar in Environmental Sociology
SOCI 5370	Seminar in Multi-Cultural Relations
SOCI 5371	Directed Study
SOCI 5388F	Seminar in Poverty
SOCI 5388G	Seminar in Food and Society

Choose 6 hours of Graduate Advisor Approved Electives<sup>1</sup>

Total Hours 31

<sup>1</sup> Six hours can be from disciplines outside of the department, but must be graduate level courses.

All students earning the M.A. with a major in sociology must pass one or more comprehensive examinations, either written, oral, or both at the end of their course work. Students completing the non-thesis option will be expected to demonstrate knowledge of material from their course work and be able to apply theory, statistics, and methods to substantive areas. Students completing the thesis option will defend the thesis and be knowledgeable about material from substantive courses as well as core courses. An appeals process is described in the sociology department's *Graduate Student Handbook*.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department

for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Sociology: SOCI

## Courses Offered

### Sociology (SOCI)

#### **SOCI 5105. Practicum in Teaching Sociology.**

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### **SOCI 5110. Proseminar in Sociology.**

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **SOCI 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**SOCI 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SOCI 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics.

The second half of the course is devoted to contemporary theory.

Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes.

Prerequisite: SOCI 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders.

Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the "Global south." The course will focus on factors affecting development and underdevelopment around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Sustainability Studies

### Major Program Sustainability Studies

The degree is specifically designed to prepare committed leaders to address emerging sustainability issues. Students completing the program will have the technical skills to formulate and solve problems at the appropriate scale, as well as the breadth of vision to recognize the interconnectedness and complexity of human-environment systems. Graduates will be prepared for admission into strong doctoral programs or professional schools, and important positions in the growing field of sustainability-related careers within local, state, or federal government,

regulatory agencies, non-governmental organizations, consulting firms and within relevant industries. The program is available to graduate students seeking a more diversified program of study than is generally available for students specializing in a single discipline. The program is open to any qualified graduate student, and is particularly relevant for those wishing to improve their subject matter competence in more than one discipline. The M.A. in Sustainability Studies is designed for students inclined toward the humanities, arts, communication, urban or regional planning, or related fields. The program is tailored to accommodate both full-time and part-time graduate students.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/sust.html>.

## Degree Requirements

There are two options, thesis and non-thesis, for earning the master of arts (M.A.) degree with a major in sustainability studies.

### Course Work Requirements

#### Thesis Option

The thesis option has degree requirements of a minimum of 36 hours, including:

#### Required Courses

SUST 5301	Seminar in Sustainability	3
PHIL 5323	Environmental Ethics	3

#### Methods Course

Select one of the following:		3-4
ENG 5327	Research Methods in Rhetoric, Composition, and Technical Communication	
PHIL 5340	Philosophy of Logic	
PA 5311	Introduction to Statistical Analysis	

#### Prescribed Electives: Policy, Law, Leadership, and Society

Select one of the following:		3
BIO 5350M	Wildlife Policy and Law in North America	
BIO 5362	Environmental Impact Analysis	
BIO 7360U	Sustainability in a Changing World	
ENG 5353	Studies in Medieval Literature	
FCS 5305	Sustainable Housing	
GEO 5312	Managing Urbanization	
GEO 5313	Environmental Management	
GEO 5314	Geographic Elements of Environmental Law	
GEO 5329	Historical Geography of the Environment	
MCS 5342	Sustainable Consumer Economy	
PA 5353	Ecology and the Politics of Sustainability	
PA 5355	Environmental Policy	
PHIL 5329	Food Ethics	
SOCI 5353	Seminar in the Community	
SOCI 5367	Seminar in Sustainable Cities	
SOCI 5368	Seminar in Environmental Sociology	
SOCI 5388G	Seminar in Food and Society	
SOCI 5390	Seminar in Globalization and Development	
SOCI 5395	Global Insecurity	

**Prescribed Electives: Science and the Environment**

Select one of the following: 3-4

AG 5370	Special Problems in Technical Agriculture
BIO 5415	Ichthyology
BIO 5470	Limnology
FCS 5307	Sustainable Lighting
MCS 5303	Sustainable Textiles
GEO 5334	Applied Water Resources
TECH 5382	Industrial Ecology and Sustainability Engineering

**Free Electives** 15**Thesis**

Select minimum 6 hours 6

SUST 5399A	Thesis
SUST 5399B	Thesis

Total Hours 36-38

**Non-Thesis Option**

The non-thesis option has degree requirements of a minimum of 36 hours including:

**Required Courses**

SUST 5301	Seminar in Sustainability	3
PHIL 5323	Environmental Ethics	3

**Methods Course**

Select one of the following: 3-4

ENG 5327	Research Methods in Rhetoric, Composition, and Technical Communication
PHIL 5340	Philosophy of Logic
PA 5311	Introduction to Statistical Analysis

**Prescribed Electives: Policy, Law, Leadership, and Society**

Select one of the following: 3

BIO 5350M	Wildlife Policy and Law in North America
BIO 5362	Environmental Impact Analysis
BIO 7360U	Sustainability in a Changing World
ENG 5353	Studies in Medieval Literature
FCS 5305	Sustainable Housing
GEO 5312	Managing Urbanization
GEO 5313	Environmental Management
GEO 5314	Geographic Elements of Environmental Law
GEO 5329	Historical Geography of the Environment
MCS 5342	Sustainable Consumer Economy
PA 5353	Ecology and the Politics of Sustainability
PA 5355	Environmental Policy
PHIL 5329	Food Ethics
SOCI 5353	Seminar in the Community
SOCI 5367	Seminar in Sustainable Cities
SOCI 5368	Seminar in Environmental Sociology
SOCI 5388G	Seminar in Food and Society
SOCI 5390	Seminar in Globalization and Development
SOCI 5395	Global Insecurity

**Prescribed Electives: Science and the Environment**

Select one of the following: 3-4

AG 5370	Special Problems in Technical Agriculture
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BIO 5415	Ichthyology
BIO 5470	Limnology
FCS 5307	Sustainable Lighting
MCS 5303	Sustainable Textiles
GEO 5334	Applied Water Resources
TECH 5382	Industrial Ecology and Sustainability Engineering

**Free Electives** 18**Professional Project**

Select minimum 3 hours 3

SUST 5398	Professional Project
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Total Hours 36-38

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

**Thesis Proposal**

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

**Thesis Committee**

The thesis committee must be composed of a minimum of three approved graduate faculty members.

**Thesis Enrollment and Credit**

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to



enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Sustainability Studies: SUST (p. 1103), SOCI (p. 1104)

## Courses Offered Sustainability Studies (SUST)

### SUST 5197. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5297. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### SUST 5301. Seminar in Sustainability.

The seminar in sustainability is an opportunity for students to learn about issues from a wide-ranging set of perspectives. The seminar is, by design, interdisciplinary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5397. Directed Study.

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5398. Professional Project.

This course involves individual work related to a professional topic or project with specific guidance from graduate faculty. The project requires the completion of a rigorous paper that is the culmination of the final paper/project for the non-thesis degree in Sustainability Studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### SUST 5399A. Thesis.

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in SUST 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**SUST 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SUST 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SUST 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Sociology (SOCI)****SOCI 5105. Practicum in Teaching Sociology.**

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**SOCI 5110. Proseminar in Sociology.**

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SOCI 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics. The second half of the course is devoted to contemporary theory.

Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes.  
Prerequisite: SOCI 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders.

Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the "Global south." The course will focus on factors affecting development and underdevelopment around the world  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Sociology

Sociology may be included as a minor field or supporting area for graduate studies in various master's programs. The minor requires nine hours of sociology electives chosen in consultation with the graduate advisor.

## College of Science and Engineering

**Dean**

Christine E. Hailey, Ph.D.

Centennial Hall Room 201

T: 512.245.2119 F: 512.245.8095

<http://www.cose.txstate.edu/>



**Associate Dean**

Robert B. Habingreither, Ed.D.

**Associate Dean**

Thomas H. Myers, Ph.D.

**Associate Dean of Research**

Gary W. Beall, Ph.D.

**Assistant Dean**

Gregory B. Passty, Ph.D.

**Department Chairs/School Directors**

Biology—Dittmar Hahn, Ph.D.

Chemistry and Biochemistry—Debra Feakes, Ph.D., Interim Chair

Computer Science—Hongchi Shi, Ph.D.

Engineering—Stan A. McClellan, Ph.D.

Engineering Technology—Andy H. Batey, Ph.D.

Mathematics—Susan Morey, Ph.D.

Physics—Mark W. Holtz, Ph.D.

## Doctor of Philosophy (Ph.D.)

- Major in Materials Science, Engineering, and Commercialization (p. 1242)

For other programs in the College of Science and Engineering, please visit the departments pages below:

- Department of Biology (p. 1108)
- Department of Chemistry and Biochemistry (p. 1163)
- Department of Computer Science (p. 1174)
- Ingram School of Engineering (p. 1191)
- Department of Engineering Technology (p. 1199)
- Department of Mathematics (p. 1204)
- Department of Physics (p. 1234)

## Department of Biology

Supple Building Room 384

T: 512.245.2178 F: 512.245.8713

<http://www.bio.txstate.edu/>

## Master's Programs

The Department of Biology offers several degree options for students wishing to pursue graduate study at the master's level. Thesis-based degrees are usually chosen as preparation for professional careers or advanced graduate work (Ph.D., D.V.M., or M.D.) and by students seeking advanced training for technology-related industries. Non-thesis degrees may be chosen by students preferring broad training in biology without a formal research experience; this plan is often chosen by secondary science teachers wishing to broaden their content training without taking additional education courses.

## Thesis Students

Students pursuing a master's degree with thesis should have a thesis committee approved by the end of their first long term of enrollment in the graduate program. The thesis committee comprises three or more individuals and is chaired by the thesis advisor. Committee members should be selected by the student in consultation with the thesis advisor and should be chosen on the basis of what they can contribute to the student's research and/or graduate studies. Committee members expect to be consulted about the research project and should contribute guidance and expertise to the project. A "Master's Thesis Committee

form" can be downloaded from the The Graduate College website and must be approved by the chair of the department's graduate committee and the department chair prior to the submission of a thesis proposal.

Students working on a thesis are expected to enroll in a thesis course (BIO 5399A or BIO 5399B) each term that they are actively involved in research. Students should enroll in BIO 5399A for their first term of thesis research and in BIO 5399B for all subsequent terms. While enrolled in BIO 5399A the student should prepare a detailed thesis proposal that introduces the project to be investigated, summarizes the relevant background literature, and explains the methodology to be used in carrying out the research. A "Master's Thesis Proposal form" can be downloaded from The Graduate College website. Submission of an approved thesis proposal to The Graduate College must be completed before the end of the student's second term of enrollment in BIO 5399B. Students pursuing a thesis-based degree must be enrolled in at least one hour of thesis credit during the term in which they graduate.

All students completing a thesis are required to present the results of their research in an open seminar attended by the thesis committee members and other interested individuals. Following the public presentation of the thesis, the student must pass a comprehensive examination administered by the thesis committee.

## Non-thesis Students

Students pursuing a non-thesis degree are required to have a major professor by the end of their first long term of enrollment in the graduate program. The major professor will normally be a faculty member specializing in an area of particular interest to the student and is often the individual who supervises the required independent study project. Prior to the final term of enrollment the non-thesis student must, in consultation with the major professor, select a committee that will administer the final comprehensive examination. A "Master's Non-Thesis Committee form" can be downloaded from the Department of Biology's website and must be approved by the chair of the department's graduate committee and the department chair.

## Comprehensive Examination

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report form", which can be downloaded from the department's website and which must be filed with The Graduate College at least 10 days prior to the date of expected graduation.

## Financial Assistance

Assistantships and scholarships are available to qualified applicants on a competitive basis. In order to be considered for assistantships or scholarships, applicants must have their application completed for review before the priority application deadline. The Department of Biology offers a limited number of graduate instructional assistantships to full-time students enrolled in the master's program. These assistantships are renewable based upon an annual review of each student's progress and performance. Faculty members may also have funds available to support students as research assistants. Support is normally limited to two years.



The Graduate College can provide information concerning the availability of graduate scholarships.

## Doctor of Philosophy (Ph.D.)

- Major in Aquatic Resources (p. 1109)

## Master of Arts (M.A.)

- Major in Biology (p. 1134)

## Master of Science (M.S.)

- Major in Aquatic Resources (p. 1127)
- Major in Biology (p. 1141)
- Major in Population and Conservation Biology (p. 1149)
- Major in Wildlife Ecology (p. 1156)

## Minors

- Aquatic Resources (p. 1163)
- Biology (p. 1163)

## Doctor of Philosophy (Ph.D.), Major in Aquatic Resources

### Ph.D. Program

Sustainable freshwater resources provide a foundation for aquatic and terrestrial ecosystems, as well as human use and economic development. However, inadequate understanding of aquatic resources and a prevailing inability to properly integrate scientific, technical, and socioeconomic elements continues to seriously hinder the goal of providing sustainable aquatic resources, not only in Texas but across the nation and around the world.

### Educational Goal

The doctoral program emphasizes original research and is designed to provide depth and breadth of knowledge in the field of aquatic resources and related disciplines, including basic and applied research, management, and policy. Students will work, both independently and with other specialists, in a multidisciplinary environment to identify and solve complex problems and issues relevant to the sustainable use of aquatic resources.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/aqrp.html>.

### Department Policies

Each doctoral student will develop a program of research and study in consultation with their Ph.D. advisor and the doctoral program director and approved by the dean of The Graduate College. This program will include a set of core courses and an appropriate selection of elective courses necessary to provide the student with the scientific expertise and knowledge to work independently and with others in a multidisciplinary environment to address the range of issues constituting sustainable aquatic resources.

Prospective students must contact doctoral faculty members to identify an individual willing to serve as their major advisor prior to submitting

their application to the graduate program. A list of faculty and their research areas is available at <http://www.bio.txstate.edu/Graduate-Programs/Ph-D--Aquatic-Resources.html>.

## Financial Assistance

Assistantships and scholarships are available to qualified applicants. The Department of Biology offers doctoral instructional assistantships and teaching assistantships on a competitive basis to full-time students enrolled in the aquatic resources Ph.D. program. Detailed information on the department's assistantship policy is included in the Department's Graduate Guide. The office of The Graduate College can provide further information regarding scholarships.

## Course Work

### Degree Audit

Each Ph.D. student is issued a preliminary degree audit by The Graduate College that should be used to plan the student's course of study. In the first term of enrollment, students should review the degree audit in consultation with their supervising professor and the program director.

With admission into the doctoral program, **it is expected that students will pursue their course work and research activities in an efficient and timely manner.** If it is determined that a student is not making adequate progress toward completion of the doctoral degree requirements, consultations will be undertaken between the student, their Ph.D. advisor, the program director, and the department graduate committee to develop a remediation plan, which may include revising a student's program of study or research. Failure to successfully remedy documented deficiencies will result in termination of the student's enrollment in the doctoral program at the discretion of the graduate committee. Students removed from the doctoral program in this manner may appeal to the dean of The Graduate College for reinstatement in the program.

### Course Work Requirements

For students entering the program with a master's degree, the Ph.D. in aquatic resources requires the completion of 21 hours of core courses and 40 hours of elective courses and dissertation (including a minimum of 15 hours of dissertation credit). For students entering the program with a bachelor's degree, the Ph.D. in aquatic resources requires the completion of 28 hours of core courses and 63 hours of elective courses and dissertation (including a minimum of 15 hours of dissertation credit). The selection of core courses should be made in consultation with the student's Ph.D. advisor and the program director. With approval of the program director, a core course beyond the minimum required hours can be counted as an elective course toward the total hours required for the degree.

### Entering with a Master's Degree

#### Core Courses

BIO 7102	Seminar in Aquatic Resources (Taken twice)	2
BIO 7303	Research (Taken three times)	9
BIO 7405	Statistics and Experimental Design I	4
or BIO 7406	Statistics and Experimental Design II	
BIO 7312	Government Policy and Aquatic Resources	3
PHIL 7323	Environmental Ethics and Sustainable Aquatic Resources	3

#### Electives

Select 25 hours from the following:		25
AG 7310	Agriculture and Sustainable Aquatic Resources	

BIO 7114	Collaborative Research	
BIO 7120	Population Biology Seminar	
BIO 7214	Collaborative Research	
BIO 7308	History of Vegetation and Climate	
BIO 7314	Collaborative Research	
BIO 7324	Natural History and Conservation of Large Mammals	
BIO 7325	Wildlife and Recreation: Impact, Policy, and Management	
BIO 7328	Integrated Waterbird Management	
BIO 7336	Evolutionary Ecology	
BIO 7346	Conservation Biology	
BIO 7348	Aquatic Resources Economics	
BIO 7350	Aquatic Resources Law	
BIO 7353	Biogeography	
BIO 7355	Plant-Water Relations	
BIO 7356	Pollution of Aquatic Ecosystems	
BIO 7360A	Industry and Sustainable Aquatic Resources	
BIO 7360B	Environmental Linkages and Sustainable Aquatic Resources	
BIO 7360C	Role of State and Federal Courts in Protection and Maintenance of Aquatic Resources	
BIO 7360D	Evolutionary Ecology	
BIO 7360E	Advances in Water Quality Investigations	
BIO 7360F	Approaches to Aquatic Resource Modeling	
BIO 7360G	Molecular Techniques in Microbial Ecology	
BIO 7360H	Parasites and Diseases fo Fishes and Other Aquatic Animals	
BIO 7360I	Bayesian Statistics for Biology	
BIO 7360K	Evolution	
BIO 7360L	Landscape and Biogeography of Texas	
BIO 7360M	Wetland Ecology	
BIO 7360N	Behavioral Ecology	
BIO 7360P	Regulation of Plant Growth and Development	
BIO 7360Q	Spatial Ecology of Animals	
BIO 7360R	Community and Ecosystem Ecology	
BIO 7360S	Soil Biology	
BIO 7360T	Karst Hydrogeology and Geomorphology	
BIO 7360U	Sustainability in a Changing World	
BIO 7360V	Techniques in Aquatic Biology	
BIO 7366	Integrated Water Resources Management	
BIO 7367	Behavioral Ecology	
BIO 7407	Instrumentation for Water Quality Analysis	
BIO 7408	Fish Ecology and Conservation	
BIO 7410	Aquatic Microbial Ecology	
BIO 7412	Environmental Hydrology	
BIO 7415	Ichthyology	
BIO 7419	Stream Ecology	
BIO 7421	Landscape Dynamics	
BIO 7422	Wetlands Ecology	
BIO 7424	Phycology	
BIO 7426	Ecology and Management of Aquatic Macrophytes	
BIO 7427	Principles of Population Biology I	
BIO 7428	Principles of Population Biology II	
BIO 7433	Population Genetics	
BIO 7434	Herpetology	
BIO 7440	Aquatic Toxicology	
BIO 7447	Microbial Physiology and Genetics	
BIO 7466	Phylogenetics	
BIO 7468	Groundwater Resources	
BIO 7469	Introduction to Ecological Modeling	
BIO 7470	Limnology	
BIO 7471	Reservoir Ecology	
BIO 7475	Restoration of Polluted Aquatic Resources	
CHEM 7330	Environmental Chemistry	
ENG 7314	Specializations in Professional and Technical Communication Topics	
GEO 7316	Remote Sensing and the Environment	
GEO 7318	GIS and Environmental Geography	
GEO 7334	Geographic Aspects of Water	
GEO 7417	Geographic Information Systems	
POSI 7310	Resolution of Disputes Involving Aquatic Resources	
<b>Dissertation</b>		
Select a minimum of 15 hours from the following:		15
BIO 7199A	Dissertation	
BIO 7299A	Dissertation	
BIO 7399A	Dissertation	
BIO 7599A	Dissertation	
BIO 7699A	Dissertation	
BIO 7999A	Dissertation	
<b>Total Hours</b>		<b>61</b>
<b>Entering with a Bachelor's Degree</b>		
<b>Core Courses</b>		
BIO 7102	Seminar in Aquatic Resources (Taken twice)	2
BIO 7303	Research (Taken three times)	9
BIO 7405	Statistics and Experimental Design I	4
or BIO 7406	Statistics and Experimental Design II	
BIO 7312	Government Policy and Aquatic Resources	3
BIO 7310	Global Aquatic Resources	3
PHIL 7323	Environmental Ethics and Sustainable Aquatic Resources	3
<b>Elective Courses</b>		
Select 48 hours from the following:		48
AG 7310	Agriculture and Sustainable Aquatic Resources	
BIO 7114	Collaborative Research	
BIO 7120	Population Biology Seminar	
BIO 7214	Collaborative Research	
BIO 7308	History of Vegetation and Climate	
BIO 7314	Collaborative Research	
BIO 7324	Natural History and Conservation of Large Mammals	
BIO 7325	Wildlife and Recreation: Impact, Policy, and Management	
BIO 7328	Integrated Waterbird Management	

BIO 7336	Evolutionary Ecology
BIO 7346	Conservation Biology
BIO 7348	Aquatic Resources Economics
BIO 7350	Aquatic Resources Law
BIO 7353	Biogeography
BIO 7355	Plant-Water Relations
BIO 7356	Pollution of Aquatic Ecosystems
BIO 7360A	Industry and Sustainable Aquatic Resources
BIO 7360B	Environmental Linkages and Sustainable Aquatic Resources
BIO 7360C	Role of State and Federal Courts in Protection and Maintenance of Aquatic Resources
BIO 7360D	Evolutionary Ecology
BIO 7360E	Advances in Water Quality Investigations
BIO 7360F	Approaches to Aquatic Resource Modeling
BIO 7360G	Molecular Techniques in Microbial Ecology
BIO 7360H	Parasites and Diseases of Fishes and Other Aquatic Animals
BIO 7360I	Bayesian Statistics for Biology
BIO 7360K	Evolution
BIO 7360L	Landscape and Biogeography of Texas
BIO 7360M	Wetland Ecology
BIO 7360N	Behavioral Ecology
BIO 7360P	Regulation of Plant Growth and Development
BIO 7360Q	Spatial Ecology of Animals
BIO 7360R	Community and Ecosystem Ecology
BIO 7360S	Soil Biology
BIO 7360T	Karst Hydrogeology and Geomorphology
BIO 7360U	Sustainability in a Changing World
BIO 7360V	Techniques in Aquatic Biology
BIO 7366	Integrated Water Resources Management
BIO 7367	Behavioral Ecology
BIO 7407	Instrumentation for Water Quality Analysis
BIO 7408	Fish Ecology and Conservation
BIO 7410	Aquatic Microbial Ecology
BIO 7412	Environmental Hydrology
BIO 7415	Ichthyology
BIO 7419	Stream Ecology
BIO 7421	Landscape Dynamics
BIO 7422	Wetlands Ecology
BIO 7424	Phycology
BIO 7426	Ecology and Management of Aquatic Macrophytes
BIO 7427	Principles of Population Biology I
BIO 7428	Principles of Population Biology II
BIO 7433	Population Genetics
BIO 7434	Herpetology
BIO 7440	Aquatic Toxicology
BIO 7447	Microbial Physiology and Genetics
BIO 7466	Phylogenetics
BIO 7468	Groundwater Resources
BIO 7469	Introduction to Ecological Modeling
BIO 7470	Limnology
BIO 7471	Reservoir Ecology

BIO 7475	Restoration of Polluted Aquatic Resources
CHEM 7330	Environmental Chemistry
ENG 7314	Specializations in Professional and Technical Communication Topics
GEO 7316	Remote Sensing and the Environment
GEO 7318	GIS and Environmental Geography
GEO 7334	Geographic Aspects of Water
GEO 7417	Geographic Information Systems
POSI 7310	Resolution of Disputes Involving Aquatic Resources

#### Techniques Courses

BIO 7401	Assessment Techniques for Aquatic Resources	4
or BIO 7402	Molecular Field Techniques	

#### Dissertation Courses

Select a minimum of 15 hours from the following:	15
BIO 7199A	Dissertation
BIO 7299A	Dissertation
BIO 7399A	Dissertation
BIO 7599A	Dissertation
BIO 7699A	Dissertation
BIO 7999A	Dissertation

Total Hours 91

## Advancement to Candidacy

### Application for Advancement to Candidacy

Students can download the "Application for Advancement to Candidacy" from The Graduate College website or they can obtain a copy from the program director. The student should complete and sign the upper portion of the form and return it to the program director. When all requirements for admission to candidacy have been met (completion of core course work, submission of an approved dissertation proposal, and completion of the comprehensive examination), the program director will forward the Application for Advancement to Candidacy form to the dean of The Graduate College for review and approval.

### Advancement to Candidacy Time Limit

Students entering the doctoral program in aquatic resources with a master's degree and receiving departmental support are expected to take the Advancement to Candidacy Comprehensive Examination by the end of their second year in the program; students entering with a bachelor's degree and receiving departmental support are expected to take the examination by the end of their third year. All students are expected to have passed the Advancement to Candidacy Comprehensive Examination within one calendar year of completing the core course work required by their degree audit. This expectation holds for both full-time and part-time students. Requests for a time extension must be submitted to the program director by the student's Ph.D. advisor and approved by the graduate committee.

No credit will be applied toward a student's doctoral degree for course work completed more than four years before the date on which the student is admitted to candidacy. This time limit applies to course credit earned at Texas State, as well as course credit transferred to Texas State from other accredited institutions.

## Grade-Point Requirements for Advancement to Candidacy

A minimum GPA of 3.0 on all course work undertaken as a graduate student in the aquatic resources doctoral program is required for admission to candidacy. No grade below "B" on any graduate course work may apply toward a Ph.D. degree in aquatic resources at Texas State.

Incomplete grades must be cleared through the office of The Graduate College at least ten days before approval for advancement to candidacy will be granted.

## Advancement to Candidacy Comprehensive Examination

Students in the aquatic resources doctoral program are required to pass a comprehensive examination that will assess the student's preparedness to carry out the proposed plan of dissertation research. Students taking the Advancement to Candidacy Comprehensive Examination must have completed all required core and background courses as prescribed in their degree audit. Detailed information on the examination procedure can be found in the Department of Biology's *Guide to Graduate Study* or obtained from the program director.

The Advancement to Candidacy Comprehensive Examination will consist of both written and oral components. The written component of the examination will consist of questions submitted by the dissertation committee members and will be administered by the program director. Successfully passing the written component of the examination requires positive votes from all members of the dissertation committee.

Successful completion of the written portion of the candidacy exam must be followed within thirty days by an oral presentation and defense of the dissertation proposal. The oral component of the Advancement to Candidacy Comprehensive Examination will entail a public seminar presentation of the student's dissertation proposal, followed immediately by a closed defense of the proposal attended only by the student and his or her dissertation committee. Both the presentation and defense must take place on the same day. Successfully passing the oral examination requires positive votes from all members of the student's dissertation committee.

## Dissertation Proposal

A dissertation proposal prepared by the student and approved by the student's Ph.D. advisor and all other members of the dissertation committee is a requirement for advancement to candidacy status. The proposal must outline the substance and scope of the dissertation research, present the methodology to be used, and survey the relevant literature. The student's Ph.D. advisor and other dissertation committee members must indicate approval of the dissertation proposal on the "Dissertation Proposal form" which can be downloaded from The Graduate College website or obtained from the program director. A final copy of the dissertation proposal, accompanied by the signed approval form, must be turned in to the program director, who will forward it to the dean of The Graduate College for review and final approval.

## Recommendation for Advancement to Candidacy

The dissertation committee recommends the applicant for advancement to candidacy after completing the "Doctoral Comprehensive Examination Report" which can be downloaded from The Graduate College website or obtained from the program director. The results of the Advancement to Candidacy Comprehensive Examination and the Application for Advancement to Candidacy must be filed in the office of The Graduate College before the dean of The Graduate College gives final approval

to candidacy. The program director is responsible for submitting these forms to the office of The Graduate College.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must represent an original contribution to scholarship based on independent investigation. Preparation of the dissertation should follow the guidelines in the current edition of the *CBE (Council of Biology Editors) Style Manual* or in an appropriate professional journal in the designated field, as deemed acceptable by the dissertation committee.

## Dissertation Enrollment Requirements

After being admitted to candidacy, students must be continuously enrolled for dissertation hours each term until the defense of their dissertation. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must complete a minimum of 15 semester hours of dissertation research and writing credit.

## Dissertation Time Limit

Students are expected to complete the dissertation within three years of advancement to candidacy. Successful completion of the dissertation defense must occur within ten years of the student's entry into the Ph.D. program. Any exceptions to these time limits require the approval of the program director and the dean of The Graduate College. The dissertation committee and the program director will review each student annually to ascertain his or her progress in pursuing the degree, and will consult with the student's Ph.D. advisor and dissertation committee on this matter as appropriate.

## Dissertation Committee

The dissertation committee is responsible for the Advancement to Candidacy Comprehensive Examination and will oversee the research progress of a doctoral student and the writing of the student's dissertation. The committee will consist of at least five members, including the student's Ph.D. advisor, two other Texas State biology doctoral faculty members, and two external doctoral-level members, at least one of whom must be from an institution other than Texas State. The student's Ph.D. advisor will chair the committee and will normally be from the major department. The student, program director, department chair, and the dean of The Graduate College will approve the composition of the dissertation committee. The student is responsible for obtaining committee members' signatures on the "Dissertation/Research Advisor Assignment form" and the "Dissertation Committee Request form," which can be downloaded from The Graduate College website.

## Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation committee chair, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the dissertation defense. The "Dissertation Advisor/Committee Member Change Request form" may be downloaded from The Graduate College website.



## Dissertation Defense

The dissertation defense will consist of two parts. The first part is an oral presentation of the dissertation research as a public seminar that should be given as part of the department's weekly seminar series. The second part of the defense is restricted to the student's dissertation committee and will entail an oral examination over the dissertation research.

The oral examination over the dissertation research may not be scheduled until all other academic and program requirements have been fulfilled. A complete draft of the dissertation must be given to the members of the dissertation committee at least 65 days before the date of commencement during the semester in which the student intends to graduate. After committee members have reviewed the draft with the student and provided comments, the student, in consultation with the Ph.D. advisor, will incorporate the recommended changes into a second draft of the dissertation. When each committee member is satisfied that the draft dissertation is defensible, the oral examination may be scheduled. The full committee, including all external members, must be present. Approval of the dissertation requires positive votes from all members of the dissertation committee. At the conclusion of the defense, a "Dissertation Defense Report form" – which can be downloaded from The Graduate College website – must be completed, signed by all committee members, and submitted to the program director, who will forward it to the dean of The Graduate College for review and final approval. Specific information on the examination procedure can be found in the Department of Biology's *Guide to Graduate Study* or obtained from the program director.

## Approval and Submission of the Dissertation

Following approval and signing of the dissertation by the members of the dissertation committee and submission of the "Dissertation Defense Report form", the student must submit one copy of the dissertation and the signed "Thesis/Dissertation Committee Approval" form to The Graduate College. Specific guidelines for approval and submission of the dissertation can be obtained from The Graduate College.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

Doctoral courses in Biology (and other related departments): AG (p. 1113), BIO (p. 1113), CHEM (p. 1121), ENG (p. 1121), GEO (p. 1121), PHIL (p. 1126), POSI (p. 1126)

## Courses Offered

### Agriculture (AG)

#### AG 7310. Agriculture and Sustainable Aquatic Resources.

Study of the impacts of agricultural on aquatic resources, including agricultural water requirements for various types of crops and soils, impacts of agricultural chemicals on aquatic ecosystems, efficiency of alternative irrigation practices, and means for altering or mitigating current practices that can adversely affect aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### Biology (BIO)

#### BIO 7100. Professional Development.

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### BIO 7102. Seminar in Aquatic Resources.

Interactive discussion of timely issues and problems, designed to introduce students to the range of scientific, socioeconomic and policy issues likely to be encountered within the field of aquatic resources. All students seeking a doctoral degree in Aquatic Resources must enroll in BIO 7102 at least twice

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

#### BIO 7103A. Ecology and Society.

Interactive discussion on relationships between society and the life-supporting ecosystems on which humans depend. Topics include roles of natural systems in social systems; effects of social, economic and political institutions on ecological systems and services; and the means by which humans develop and sustain desired ecological and social states

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

#### BIO 7103B. Aquaculture.

The course comprises a survey of aquaculture production throughout the world. It also examines and discusses the impacts of aquaculture on nutrition, fisheries and the economy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

#### BIO 7103C. Marine Pollution.

This course will be an interactive discussion of scientific literature on the bioaccumulation and trophic transfer of pollutants in the marine environment. Topics will include metals, oil, PCBs and emerging contaminants

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

#### BIO 7103D. Molecular Biology of the Cell.

Interactive discussion of current literature on molecular biology of the cell. The course is designed to discuss concepts and their applications and methodology associated with the structure and function of the cell at cellular and molecular level

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter



**BIO 7103E. Contemporary Problems in Ecology.**

This course is an interactive discussion of the theoretical foundations and empirical basis for controversial topics in ecology, designed to develop critical thinking skills, and the ability to evaluate and integrate the biological, chemical and physical factors that affect the structure, functions, and interactions characterizing communities and ecosystems

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7103F. Molecular Genetics of Plant Development.**

The study of plant development is rapidly changing as plant genome projects discover a multitude of new genes, and their expression and interaction patterns are understood. This course is designed to discuss concepts in plant development, and developmental processes as pathways of gene regulatory activities

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7103G. Ecohydrology.**

A review of the concept of ecohydrology, its scientific foundation, and its ecological-hydrological linkages. Current topics in ecohydrology in the literature will be discussed, including manipulation of biota and hydrology interactions in a landscape, and the possibility of augmenting the resilience of ecosystems to anthropogenic changes

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7103H. Integrated Waterbird Management.**

This course focuses on the ecology and management of waterbirds, with an emphasis on the inland and coastal waterbirds of Texas. The basic ecology of waterbirds, waterbird management techniques, and waterbird habitat management will be discussed

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7103I. Avian Ecology and Evolution.**

This course is an interactive discussion of avian ecology and evolution, providing students with a critical examination of theories, hypotheses, and lab and field-based data that support or refute these hypotheses. This course also discusses peerreviewed literature that challenges some paradigms in avian ecology and evolution

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7114. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 7120. Population Biology Seminar.**

This course facilitates exploration of current topics in population and conservation biology through reading and discussion of contemporary primary and secondary literature

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7199A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7214. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7299A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7302. Problems in Aquatic Resources.**

Individual study on specific state, national, or international aquatic resources issues, under direct supervision of a doctoral or associate faculty member. Students may not enroll in BIO 7302 more than twice for doctoral credit without the approval of the Graduate Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7303. Research.**

Research course for students who have not yet passed their Candidacy Exam, typically under direction of research-dissertation supervisor. Pre-candidacy students must enroll in course every semester until admission to Candidacy, although it may not be taken more than three times for doctoral credit without the approval of Graduate Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7308. History of Vegetation and Climate.**

An overview of past vegetation and its relationship to changing climate. Topics include principles of paleovegetation analysis, paleoclimatology, the rise of flowering plants, vegetation during the age of dinosaurs, the rise of the grasslands, and the Quaternary Ice Age. Prerequisites: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 7310. Global Aquatic Resources.**

Introduction to global, national, and regional aquatic resource issues, including scientific, environmental policy and socioeconomic components and perspectives. Water quantity and quality issues and their root causes in different regions of the world are examined, with an emphasis on case studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7312. Government Policy and Aquatic Resources.**

Examination of aquatic resources issues in federal, state, or local governments, including examination of goals and relations of different governmental entities to each other. Relevant international treaties, and federal and state statutes in which these policies are embodied, are examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7314. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7322. Scientific Method and Aquatic Resources.**

Analysis of the scientific method applied to ecological research, focusing on aquatic ecosystems. Topics include methods of reasoning and statistical inferences in research, strategies of scientific research in aquatic ecology, and scientific research as a social process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7325. Wildlife and Recreation: Impact, Policy, and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisite: BIO 4416

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7326. Immunobiology.**

This lecture-based course will cover the mechanisms and biology of the innate and adaptive immune system. Emphasis will include relationship to cancer, transplantation, hypersensitivity (allergy), and disease. Students will evaluate current research in immunology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7328. Integrated Waterbird Management.**

This course examines the principles and practical methodology of integrated waterbird conservation and management, including overview of waterbird ecology, techniques in monitoring and data collection related to population dynamics, and habitat parameters of waterbird species. Field trips may be required

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7336. Evolutionary Ecology.**

This course will use an evolutionary perspective to explore questions provided by natural selection and sexual selection through assessment of current theory and research related to topics such as competition, coevolution, and phenotypic plasticity. Students will achieve comprehension and familiarity with the field through discussions and writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7342. Virology.**

This course examines the structure, multiplication and genetics of bacterial, plant, and animal viruses as well as the role of viruses in human and plant disease. Students are expected to become familiar with the research literature in virology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7346. Conservation Biology.**

Examination of the alteration of habitats and associated biological changes threatening the continued existence of species and basic ecosystems. Topics include conservation ethics, working paradigms, levels and loss of global biodiversity, conservation at population and ecosystem levels, restoration ecology, endangered species biology and conservation laws. Recent Advances are stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7348. Aquatic Resources Economics.**

Examination of economic and related social issues for facilitation of sustainable aquatic resources for competing beneficial human uses and ecosystem maintenance, including valuation of aquatic ecosystem services. Prerequisite: BIO 7312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7350. Aquatic Resources Law.**

Examination of treaties, state and federal laws, and regional and local regulations, affecting freshwater and coastal aquatic resources. The focus is on aquatic ecosystems, water quantity and quality and environmental conditions, including the availability, storage, use, and protection of aquatic resources. Prerequisite: BIO 7312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7353. Biogeography.**

Examines historical and ecological explanations of the geographic distribution of organisms including the role of geologic, climatic, and biologic changes. Emphasizes the historical and philosophical development of the science and modern methods of analysis. Prerequisites: Undergraduate evolution and ecology courses, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**BIO 7355. Plant-Water Relations.**

Examination of the physiology and ecology of water use in higher plants, including the uptake, utilization, and movement of water, transpiration and adaptation to variable water availability including drought, and the ecological role of water in structuring plant communities. Prerequisite: BIO 3465 or equivalent, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7356. Pollution of Aquatic Ecosystems.**

Overview of the water quality degradation of aquatic ecosystems (rivers, lakes, wetlands, groundwater aquifers) and their living resources from point and nonpoint pollutant sources. Topics will include aquatic ecosystem pollution and impacts attributable to nutrients, heavy metals, organic chemicals, sediment, salinization, and acid rain. Field trips may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**BIO 7360A. Industry and Sustainable Aquatic Resources.**

Examination of industrial water needs and uses, the types and quantities of water pollutants produced by different industries, problems faced by industry regarding process water for different manufacturing activities, and the possibilities for industry to contribute to the goal of sustainable aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360B. Environmental Linkages and Sustainable Aquatic Resources.**

Introduction to the environmental relationships between humans and other living beings and the ecological systems in which they exist. Emphasis will be on the potential for individual environmental problems to have serious impacts on other environmental components, as well as the nature of these impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360C. Role of State and Federal Courts in Protection and Maintenance of Aquatic Resources.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360D. Evolutionary Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360E. Advances in Water Quality Investigations.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360F. Approaches to Aquatic Resource Modeling.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360G. Molecular Techniques in Microbial Ecology.**

Lectures on molecular techniques used to analyze structure and function of uncultured microbial communities in the environment with selected examples of applications. Prerequisites: None

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360H. Parasites and Diseases of Fishes and Other Aquatic Animals.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. Prerequisites: Ichthyology

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required|Topics  
**Grade Mode:** Standard Letter

**BIO 7360I. Bayesian Statistics for Biology.**

This course examines the theory and mathematical foundations of Bayesian statistics and provides instruction and experience conducting Bayesian analyses using computer-based procedures. The course emphasizes practical applications for Bayesian statistical procedures for problems in biological sciences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**BIO 7360K. Evolution.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360L. Landscape and Biogeography of Texas.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360M. Wetland Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360N. Behavioral Ecology.**

Examination of evolutionary implications of behavioral interactions through the assessment of current theory and research related to cooperation and conflict, mating and parental conflict and sexual selection. Class will consist of lectures, discussions of recent primary literature, and scientific writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360P. Regulation of Plant Growth and Development.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360Q. Spatial Ecology of Animals.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360R. Community and Ecosystem Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360S. Soil Biology.**

An introduction to the biology of soil systems, including the roles of biota in forming and maintaining soils, and the interactions between biotic and abiotic components in soils

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360T. Karst Hydrogeology and Geomorphology.**

An introduction to, and advanced understanding of, karst hydrogeology, geology, and geomorphology, with emphasis on field and theoretical applications of this information to the study of karst systems, and recognition and understanding of karst landforms at the surface and their relationships with subsurface processes. Pre-requisite: Graduate status and instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360U. Sustainability in a Changing World.**

Understanding the ecological-social interface, including policies, product development and actions towards sustainability, with emphasis on integrating and implementing theories and methods across disciplines, and improving the knowledge and experience base for public policy and decision-making regarding human-environment linkages within the context of sustainable development. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360V. Techniques in Aquatic Biology.**

The course will provide hands on experience with a suite of physical, chemical, and biological sampling techniques and gear used in applied river studies. Students will be exposed to the fundamentals of data quality objectives, accuracy, precision, detection limits, data visualization, exploratory analysis, univariate and multivariate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360X. Communicating Science.**

This course explores how to successfully disseminate science through visualizations, oral presentations, and written works to multiple audiences. Special emphasis will be placed on communicating with the general public, media and granting agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7360Y. Applied Bioinformatics.**

This course provides an introduction to scripting and other computational techniques used for visualizing and analyzing large biological datasets. Computational techniques include sequence and structural alignment, data mining, phylogenetic tree construction, and data clustering using UNIX, Python, and R. Students will gain a solid foundation in broadly applicable bioinformatics skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7360Z. College Science Teaching.**

This course is designed for graduate students in the sciences who are interested in improving their science teaching and/or are interested in pursuing careers in academia. This course focuses on the central question, "How do college students best learn science, and thus how do we best teach them?"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7361A. Discipline-Based Educational Research Methods.**

This course will expose science graduate students to educational research in a practical setting, supervised by a professor experienced in conducting discipline-based educational research, focusing primarily on qualitative methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7361B. Ecology of Temporary Waters.**

Temporary waters (which regularly go dry) are often overlooked. This course explores their diversity, their ecological role and how these systems are impacted by humans. We will also look at the species that rely on temporary waters, their special adaptations, and their populations and community dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7362. Environmental Impact Analysis.**

Examination of government regulations regarding environmental impact, content of environmental impact statements, procedure for impact studies, application of ecological principles to impact studies, and the review process for environmental impact statements, focusing on aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7366. Integrated Water Resources Management.**

Study of principles for integrated management of aquatic ecosystems, including drainage basin, regional, and transboundary dimensions. Other global issues (climate change, biodiversity, etc.) also are discussed as components of integrative approach for multi-functional programs for sustainable use of aquatic ecosystems. Prerequisites: BIO 7310 and BIO 7412 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7367. Behavioral Ecology.**

Examination of the evolutionary implications of behavioral interactions through the assessment of current theory and research related to social behavior, sexual selection and sexual conflict, and mechanisms of behavior. Students will achieve comprehension and familiarity with the historical development of the field of behavioral ecology through discussions and writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7399A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7401. Assessment Techniques for Aquatic Resources.**

The rationale for designing and implementing monitoring and sampling programs for aquatic resources is examined. General field and laboratory methods for assessing water quantity, water quality and the status of aquatic ecosystems and their living resources, will be introduced. Field trips will be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7402. Molecular Field Techniques.**

The application of molecular tools for identifying, quantifying, and interpreting biological diversity assessments in aquatic systems. The course focuses on micro organismal identification and vertebrate model systems

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7405. Statistics and Experimental Design I.**

Introduction to inferential statistics, including exploratory and confirmatory data analysis, estimation and hypothesis testing, analysis of variance and regression, and non-parametric techniques, as applied to aquatic resource issues. Computer applications emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7406. Statistics and Experimental Design II.**

Introduction to the principles of experimental design, including randomization, replication, sample-size determination, completely randomized and randomized block design, factorial design, repeated measure design, and analysis of variance and covariance, as applied to aquatic resource issues. Computer applications emphasized. Prerequisite: BIO 7405 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 7407. Instrumentation for Water Quality Analysis.**

An introduction to the theory and application of laboratory and field instrumentation and techniques for analysis of water quality.

Prerequisite: CHEM 3410 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7408. Fish Ecology and Conservation.**

Examination of the linkages and interactions between fish assemblages and communities and their population ecology. Issues related to flowing and pooled water systems and fisheries conservation also are discussed. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7410. Aquatic Microbial Ecology.**

Examination of microbial organisms, communities, and interactions affecting the form, structure, and functional aspects of aquatic ecosystems. Field trips may be required. Prerequisite: BIO 2400. BIO 3440 (Microbiology) or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7412. Environmental Hydrology.**

Overview of the properties, distribution, and movement of water over and under the land surface and its relation to sustainable aquatic ecosystems, including quantitative methods to assess cumulative impacts of human activities on such systems. Field trips may be required. Knowledge of calculus recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7414. Ecology of Infectious Diseases of Wildlife.**

Concepts of the ecology of infectious diseases in wildlife are studied in depth with emphasis on their application to the management and conservation of wildlife species and for the control of zoonotic diseases. Requires consent from the instructor to enroll

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7419. Stream Ecology.**

Study of ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Laboratory includes sampling methods, descriptive and comparative studies, experiments, and critical discussion of literature. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7421. Landscape Dynamics.**

Study of processes influencing energy and material flows, interactions and cycling in aquatic ecosystems, including system and spatial analysis of landscapes, aquatic ecosystems, land use characteristics, and associated human impacts. Field trips may be required. Knowledge of calculus recommended. Prerequisite: BIO 7412 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7422. Wetlands Ecology.**

Study of the characteristics, classification, conservation and management of marshes and other periodically-inundated ecosystems, emphasizing the interactions of physical, chemical and biological factors. Field trips may be required. Prerequisite: BIO 4416 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7424. Phycology.**

Examination of algae (phytoplankton, periphyton) and their structure, taxonomy, ecology and distribution

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7426. Ecology and Management of Aquatic Macrophytes.**

Examination of aquatic macrophytes and their ecology, taxonomy, distribution and management. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7427. Principles of Population Biology I.**

Provides a foundation in theory and mathematics of basic population biology. The course is divided into modular components including defining evolutionary significant units, ecology of populations, genetics of populations, and evolutionary genetics. Prerequisites: BIO 4416 and BIO 2450, or permission of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7428. Principles of Population Biology II.**

Provides a foundation in theory and mathematics of basic population biology. The course is divided into modular components which include: 1) Ecology of Communities, 2) Evolution of Behavior, 3) Phylogenetic Methods, and 4) Biological Diversity and Conservation Biology.

Prerequisite: BIO 7427 or permission of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7430. Mycology.**

This course provides an introduction to the organisms in the Kingdom Fungi and to fungus-like organisms, their ecology and evolution, and their role in industry and disease. Special emphasis will be placed on morphology, culturing, and using laboratory techniques for identification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7433. Population Genetics.**

This course examines the theoretical foundations of population genetics, including the description of population genetic structure and the forces creating it. The course emphasizes application of principles to a wide range of current problems in evolution, systematics and ecology. Molecular methods, data interpretation and computer-based data analysis are emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. While cosmopolitan in scope, emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7440. Aquatic Toxicology.**

Introduction to principles for identifying and assessing the adverse effects of chemicals and other compounds and mixtures on aquatic organisms and ecosystems. Completion of BIO 7402 is recommended prior to enrollment in BIO 7440

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7447. Microbial Physiology and Genetics.**

Prokaryotes, including bacteria and archaea, are the most diverse group of organisms on earth. Many prokaryotes live in environments which are inhospitable to other life forms. This course covers major aspects of prokaryotic physiology and genetics that permit them to be so successful. Prerequisites: BIO 2400 and BIO 2450 or equivalents

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7466. Phylogenetics.**

Study of the use of phylogenetic methodologies in aquatic research, including practical data collection, management, and analysis in the reconstruction of phylogenies. Laboratory exercises will introduce phylogenetic and DNA analysis software. Prerequisite: BIO 2450, BIO 4369 and BIO 5466, or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7468. Groundwater Resources.**

Study of the geological, physical, chemical and biological factors influencing sustainable groundwater resources, including hydrologic linkages and interactions with surface aquatic resources. Emphasis will be on the karst aquifer systems of Central Texas, and other groundwater aquifer systems of the United States

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7469. Introduction to Ecological Modeling.**

Mathematical models range from simple conceptual models to complex mechanistic models for mimicking behavior of natural systems. This course provides a broad overview of modeling objectives, techniques and assumptions, as well as the practical skills needed to conduct modeling projects. Computer applications emphasized. Prerequisite: MATH 2471 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and form structural and functional aspects of reservoir ecosystems. Lab focuses on field, laboratory, and mathematical approaches to quantifying and managing these important ecosystems. Field trips may be required. Prerequisite: BIO 4470 or BIO 5470 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7475. Restoration of Polluted Aquatic Resources.**

Overview of methods for treating or restoring aquatic resources degraded by pollution and related anthropogenic impacts. Topics include point and nonpoint source pollution of surface waters and groundwater aquifers, pollution from storage and waste disposal sites, aquatic habitat rehabilitation, and on-site methods. Field trips may be required. Prerequisite: BIO 7356 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7599A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7699A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7999A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Chemistry (CHEM)****CHEM 7330. Environmental Chemistry.**

An introduction to environmental chemistry, with an emphasis on aquatic resources. Basic principles of geochemistry and atmospheric chemistry, as they relate to pollutant impacts on aquatic ecosystems, also will be examined. Prerequisites: CHEM 1341/CHEM 1141, CHEM 1342/CHEM 1142, CHEM 2341/CHEM 2141, CHEM 2342/CHEM 2142 and CHEM 3410, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**English (ENG)****ENG 7300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7314. Specializations in Professional and Technical Communication Topics.**

Provides theoretical and practical information for specialized types of technical and professional communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7316. Foundations in Rhetoric and Composition.**

A course providing students with theoretical, pedagogical, and/or methodological foundations in the field of rhetoric and composition. Emphases vary but may include Contemporary Composition Pedagogy, Basic Writing Theory and Practice, and Writing Assessment. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7317. Specializations in Rhetoric and Composition.**

A course providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Across the Curriculum, Service Learning, Writing Center Theory and Practice, Computers and Writing, Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Geography (GEO)****GEO 7150. Practicum in Teaching Geography.**

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**GEO 7190. Independent Study.**

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7199A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7250. Practicum in Teaching Geography.**

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**GEO 7290. Independent Study.**

This course is designed to provide a student with credit while conducting independent research in consultation with his or her research advisor. Repeatable once for additional credit with a different topic

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7299A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7300. Advanced Geographic Research Design.**

The purpose of this course is to develop an appreciation for the process of research as practiced by contemporary professional geographers.

Topics covered include formulating research problems, reviewing and critiquing published literature, developing and executing a research design, and completing a research project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7301. Advanced Quantitative Methods in Geography.**

How to mathematically and statistically model geographic problems is the focus of this course. The application of multivariate statistical techniques to geographic problems and the problems that spatial data create in the application of statistical and other quantitative techniques are central issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7302. Nature and Philosophy of Geography.**

This course is a critical analysis of the historical development of geographic thought: its roots, its present status, and future directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7305. Historical Geography of the American Environment.**

This course examines the spatial evolution of environmental problems in the United States using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental problems in the context of urbanization and industrialism. The course will expose students to the most significant work by geographers in this area to date, and to the historical development of environmental geographic analysis in the U.S

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7308. Advanced Regional Field Studies.**

Advanced study of geographic phenomena during field excursions to a particular site or region. Course includes preparation of site inventory, site guides, and on-site presentations. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7313. Environmental Systems.**

Theories and concepts involved in environmental systems will be examined. Tools and research issues relevant to their analysis will also be explored. Basic principles, as well as specific research questions and techniques, will be proposed to give students a foundation for analysis of current issues involving environmental systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7314. Geography of Resource Development.**

This course will provide a detailed and in-depth analysis of theories, policies, and practices regarding resource development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7316. Remote Sensing and the Environment.**

A detailed examination and implementation of sophisticated approaches for processing satellite digital images with emphasis on environmental applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7318. GIS and Environmental Geography.**

This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7330. Geography of Natural Hazards.**

This seminar examines the interdisciplinary nature of natural hazards research, the evolution of theories and thought in natural hazards, the geophysical causes of natural hazards, human impact and response to natural disasters, and issues and challenges in the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 7331. Geography of the Hazards of Technology.**

This research seminar focuses on the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. Special attention will be paid to the theoretical and conceptual understandings of hazards among both professionals and the public to evaluate how these views affect policies, choices, behaviors, and impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7334. Geographic Aspects of Water.**

This seminar is a critical analysis of developmental and current literature that define water's critical role in determining the physical and cultural characteristics of the earth. Principal focus will be placed on water's role on land use and as a critical resource

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7342. Theories and Methods in Geographic Education.**

This seminar is a critical analysis of previous and current literature concerning problems in pedagogy, philosophy, learning theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7344. Seminar in Geographic Curriculum.**

The seminar will be a survey and discussion of major curricula in geographic education. Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7346. Standards and Assessment in Geography.**

An introduction to assessment procedures in geography education is central to the course. Analysis of national standards in geography and how they have affected geographic learning in grades K-12 will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7348. Ethnic Geography.**

This course will engage student in the in-depth critical analysis of the theories and methods of ethnic geography. The students will conduct careful research on a topic in ethnic geography. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 7349. Population Geography.**

An in-depth study of the growth, movement, and spatial distribution of human populations is the central theme. Students will read and discuss professional articles that stress both theory and analytical techniques. Topics will include population growth and the environment, rural and small town depopulation, spatial diffusion processes, migration trends and theories, urban population growth, and techniques such as multivariate analysis and population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7361. Advanced Geographic Information Systems.**

This course provides exposure to advanced topics in GIS, particularly to quantitative methods and techniques for developing and interpreting models of natural and anthropogenic phenomena over the geographical space

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7362. Geographic Visualization.**

This course focuses on the interdisciplinary field of Geographic Visualization. Students will review visualization research in computer graphics, human computer interaction, GIScience, and cartography and relate the research approaches to useful and usable geographic visualizations. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7364. Geocomputation.**

Geocomputation reviews and analyzes concepts of computational modeling in Geography. The course will include modeling theory and advanced topics such as parallel processing, neural networks, cellular automata, scientific visualization, and fuzzy modeling. Students will practice model development, specifically spatially explicit simulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7365. Theoretical Cartography.**

This course focuses on theoretical developments in cartography, and in particular looks at the role of maps and other graphic devices as tools for the discovery, analysis, and communication of geographical knowledge.

Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7366. Advanced Topics in Remote Sensing.**

The course focuses on advanced topics including the theoretical basis, mathematical foundations, and current research frontiers in remote sensing. Prerequisite: GEO 5415 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7370. Advanced Seminar in Environmental Geography.**

This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7371. Advanced Seminar in Geographic Education.**

This research seminar analyzes literature and research into recent trends in geographic education. Emphasis will be on new developments in curriculum, content, and teaching methodologies. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 7372. Seminar in Geographic Information Science.**

This course deals with advanced and current research issues in Geographic Information Science. Based on this objective, the course aims at educating doctoral students to conduct research in Geographic Information Science as well as develop innovative applications of Geographic Information Science. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7390. Independent Study.**

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 7393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393C. Managing Urbanization.**

This course examines survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393D. International Migration.**

This course provides a survey of geographic and social science research conducted across various topics of international migration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393E. Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulation in land management, and the human-environment impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393F. Gender and Development.**

This course is a survey of geographic and social science research conducted across various topics of gender studies and international development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393G. Political Geography.**

This course is a survey of geographic and social science research conducted across various topics of political geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393H. Urban Environment.**

This course explores scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on the myriad ways in which human-environment interaction influences, and is influenced by, urban geography and the urban experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393I. Contemporary Topics in Geography Education.**

This course will be a survey of recent initiatives in geography education. This course will focus on areas such as research, assessment, and the development and use of instructional materials in relation to the National Science Foundation funded "Road Map for 21st Century Geography Education"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393J. Soil and Society.**

This course explores the importance of soil resources for environmental and socioeconomic sustainability. Soil science will be introduced, but the majority of the course will focus on soil's value to societies. Specific topics that will be explored include soil geography, historical abuses of soil resources, and current conservation efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393K. Biogeomorphology.**

This course will examine the ways in which plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms, and geological factors affect spatial distributions of animals and plants. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393L. Lidar.**

This course is an introduction to Light Detection and Ranging (lidar) systems for mapping and analysis. Students will learn to successfully apply knowledge of lidar sensors and technology for a variety of geographic information science applications. Students must have prior knowledge and experience with GIS analysis and mapping tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393M. Global Climate Change.**

This course examines various implications of global climate change, including impacts on science, politics, and society. Emphasis will be placed on anthropogenic influences across the 20th and 21st centuries, contemporary mitigation options, and future adaptation strategies amidst a complex and dynamic climate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393N. Rivers and Society.**

This course examines river system processes and how they are influenced by human activities. We will discuss the principles and practices of large-scale river basin management with an emphasis on the different perspectives and motivations driving different management goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393O. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs.

Prerequisite: GEO 5418 or the equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7399A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor.

While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7415. Geographic Applications of Remote Sensing.**

Students will focus on geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7417. Geographic Information Systems.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to the concepts involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7418. Technical Foundations and Methods in Geographic Information Science.**

This course is concerned with the analysis and interpretation of maps stored in digital form. It will cover a variety of topics of interest to those seeking more in-depth knowledge of GIS and ancillary topics such as spatial statistics. The course provides an in-depth understanding of spatial analysis and modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7447. Spatial Graphics in Geographic Education.**

This course examines traditional and innovative geoinformation and geovisualization technologies and their relationship to spatial thinking and the teaching and learning of geography. The course reviews academic literature, research methods, and teaching methodologies related to spatial graphics in geographic education. The lab portion provides geovisualization design skills for geographic education

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7599A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Philosophy (PHIL)****PHIL 7323. Environmental Ethics and Sustainable Aquatic Resources.**

Examination of the ethical implications of environmental use and management policies and practices, with emphasis on sustainable aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Political Science (POSI)****POSI 7310. Resolution of Disputes Involving Aquatic Resources.**

Analysis of historically significant environmental disputes affecting aquatic resources and establishing precedents for resolution of subsequent disputes. Techniques for resolving environmental disputes (e.g., litigation, arbitration, mediation, negotiation) and how science and scientists are used in each procedure. Design of systems for using dispute resolution procedures in appropriate sequence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

# Master of Science (M.S.), Major in Aquatic Resources

## Major Program

The master of science with a major in aquatic resources is a thesis-based degree that emphasizes research in aquatic ecosystems and the biological communities that they support.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/aqrm>.

## Degree Requirements

Students in the aquatic biology concentration will focus on the biology and ecology of aquatic organisms and an understanding of the dynamics and management of aquatic ecosystems.

Students in the aquatic systems concentration will focus on an understanding of the structure and functioning of aquatic systems as integrated physical, biological, and socioeconomic entities and will emphasize practices aimed at protecting, maintaining, and restoring the health and sustainable use of these resources. This area of concentration encourages investigation of aquatic systems at the level of the watershed, as influenced by atmospheric and terrestrial processes.

All elective course work should be chosen in consultation with the thesis advisor, thesis committee, and program director to fulfill the requirements for the degree.

## Course Work Requirements

### Required Core Courses

BIO 5110	Seminar in Biology (Taken twice)	2
BIO 7405	Statistics and Experimental Design I	8
& BIO 7406	and Statistics and Experimental Design II	

### Thesis Courses

Choose a minimum 6 hours		6
BIO 5199B	Thesis	
BIO 5299B	Thesis	
BIO 5399A	Thesis	
BIO 5399B	Thesis	
BIO 5599B	Thesis	
BIO 5999B	Thesis	

### Concentration Courses

See tables below for course offerings		15
Total Hours		31

## Aquatic Biology Concentration

### Biology Electives

Choose 7 hours from the following:		7
BIO 5415	Ichthyology	
BIO 5419	Stream Ecology	
BIO 5470	Limnology	
BIO 7328	Integrated Waterbird Management	
BIO 7356	Pollution of Aquatic Ecosystems	
BIO 7422	Wetlands Ecology	

BIO 7471	Reservoir Ecology	
Graduate Advisor-approved Electives		8

## Aquatic Systems Concentration

### Biology Electives

Choose 7 hours from the following:		7
BIO 5419	Stream Ecology	
BIO 7312	Government Policy and Aquatic Resources	
BIO 7412	Environmental Hydrology	
BIO 7366	Integrated Water Resources Management	
BIO 7421	Landscape Dynamics	
BIO 7422	Wetlands Ecology	
BIO 7468	Groundwater Resources	
BIO 7471	Reservoir Ecology	
Graduate Advisor-approved Electives		8

## Thesis Students

Students pursuing a master's degree with thesis should have a thesis committee approved by the end of their first long term of enrollment in the graduate program. The thesis committee comprises three or more individuals and is chaired by the thesis advisor. Committee members should be selected by the student in consultation with the thesis advisor and should be chosen on the basis of what they can contribute to the student's research and/or graduate studies. Committee members expect to be consulted about the research project and should contribute guidance and expertise to the project. A "Master's Thesis Committee form" can be downloaded from the Department of Biology's website and must be approved by the chair of the department's graduate committee and the department chair prior to the submission of a thesis proposal.

Students working on a thesis are expected to enroll in a thesis course each term that they are actively involved in research. Students should enroll in BIO 5399A for their first term of thesis research and in BIO 5399B for all subsequent terms. While enrolled in BIO 5399A the student should prepare a detailed thesis proposal that introduces the project to be investigated, summarizes the relevant background literature, and explains the methodology to be used in carrying out the research. A "Master's Thesis Proposal form" can be downloaded from The Graduate College website. Submission of an approved thesis proposal to the office of The Graduate College must be completed before the end of the student's second term of enrollment in thesis. Students pursuing a thesis-based degree must be enrolled in at least one hour of thesis credit during the term in which they graduate.

All students completing a thesis are required to present the results of their research in an open seminar attended by the thesis committee members and other interested individuals. Following the public presentation of the thesis, the student must pass a comprehensive examination administered by the thesis committee.

## Non-thesis Students

Students pursuing a non-thesis degree are required to have a major professor by the end of their first long term of enrollment in the graduate program. The major professor will normally be a faculty member specializing in an area of particular interest to the student and is often the individual who supervises the required independent study project. Prior to the final term of enrollment the non-thesis student must, in consultation with the major professor, select a committee that will administer the final comprehensive examination. A "Master's Non-Thesis Committee form" can be downloaded from the Department of Biology's



website and must be approved by the chair of the department's graduate committee and the department chair.

## Comprehensive Examination

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report form", which can be downloaded from The Graduate College website and which must be filed in the office of The Graduate College at least 10 days prior to the date of expected graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to

enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Biology: BIO



## Courses Offered

### Biology (BIO)

#### **BIO 5100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### **BIO 5110. Seminar in Biology.**

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### **BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 53500. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 53500, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 53500

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 53500

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups.

Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis. Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Biology

### Admission Policy

For information regarding admission application requirement and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/bio.html>.

### Course Work Requirements

The thesis-based master of arts degree with a major in biology requires a minimum of 30 semester hours of course work including:

<b>Biology Courses</b>	<b>3-4</b>
Option A - Choose 3 hours from the following:	
BIO 5110	Seminar in Biology
BIO 7102	Seminar in Aquatic Resources
BIO 7120	Population Biology Seminar
Option B - Take 2 hours of seminar courses from Option A and:	
BIO 5295	Fundamentals of Research
<b>Biology Electives</b>	<b>15</b>
Select a minimum of 15 additional hours of 5000- or 7000-level BIO course work.	
<b>Thesis</b>	<b>6</b>
Choose a minimum 6 hours from:	
BIO 5199B	Thesis
BIO 5299B	Thesis
BIO 5399A	Thesis
BIO 5399B	Thesis
BIO 5599B	Thesis
BIO 5999B	Thesis
<b>Non-science Minor</b>	<b>6</b>
<b>Total Hours</b>	<b>30-31</b>

Students wishing to pursue a minor may choose one from outside the College of Science and Engineering. This option reduces the Biology Electives requirement to 15 hours and adds a minimum of 6 hours in an approved graduate minor.

### Elective Course Work

A maximum of two courses offered in other departments may be substituted for elective course work towards the M.A. in biology with prior approval of the graduate advisor and dean of The Graduate College. Courses taught outside the department that do not require prior approval are:

CHEM 5385      MPMetabolism

GEO 5415	Geographic Applications of Remote Sensing	4
GEO 5418	Geographic Information Systems I	4
GEO 5419	Geographic Information Systems II	4
GEO 7417	Geographic Information Systems	4

## Comprehensive Exam

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report form", which can be downloaded from The Graduate College website and which must be filed in the office of The Graduate College at least 10 days prior to the date of expected graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using**

**university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Biology: BIO

## Courses Offered

### Biology (BIO)

#### **BIO 5100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### **BIO 5110. Seminar in Biology.**

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### **BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**BIO 53500. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 53500, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 53500

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 53500

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups.

Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis. Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Biology

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/bio.html>.

### Degree Requirements

The thesis-based master of science (M.S.) degree with a major in biology requires a minimum of 30 semester hours of course work. A supporting minor may be selected with the approval of the appropriate graduate advisor. For the thesis-based degree, the minor must be in the College of Science and Engineering or Department of Geography.

The non-thesis master of science degree with a major in biology requires a minimum of 45 semester hours. A supporting minor may be selected with the approval of the appropriate graduate advisor. For the non-thesis degree, any graduate minor may be chosen.

### Course Work Requirements

#### Thesis Option

Select one of the following seminar options: 3-4

Option A - Take 3 hours from the following:

BIO 5110 Seminar in Biology

BIO 7102 Seminar in Aquatic Resources

BIO 7120 Population Biology Seminar

Option B - Take 2 seminar courses from Option A and:

BIO 5295 Fundamentals of Research

Select a minimum of 21 additional hours of 5000- or 7000-level course work. <sup>1</sup> 21

Thesis Courses (Choose a minimum 6 hours) 6

BIO 5199B Thesis

BIO 5299B Thesis

BIO 5399A Thesis

BIO 5399B Thesis

BIO 5599B Thesis

BIO 5999B Thesis

Total Hours

30-31

<sup>1</sup> A maximum of two courses offered in other departments may be substituted for elective course work towards the M.S. in biology with prior approval of the graduate advisor and dean of The Graduate College. Courses taught outside the department that do not require prior approval are: CHEM 5385 and GEO 5415, GEO 5418, GEO 5419, GEO 7417.

### Thesis Option with Science or Geography Minor

Select one of the following seminar options:	3-4
Option A - Take 3 hours from the following:	
BIO 5110 Seminar in Biology	
BIO 7102 Seminar in Aquatic Resources	
BIO 7120 Population Biology Seminar	
Option B - Take 2 seminar courses from Option A and:	
BIO 5295 Fundamentals of Research	
Select a minimum of 15 additional hours of 5000- or 7000-level course work. <sup>1</sup>	15
Thesis Courses (Choose a minimum 6 hours)	6
BIO 5199B Thesis	
BIO 5299B Thesis	
BIO 5399A Thesis	
BIO 5399B Thesis	
BIO 5599B Thesis	
BIO 5999B Thesis	
Science or Geo Minor Course Work	6
<b>Total Hours</b>	<b>30-31</b>

<sup>1</sup> A maximum of two courses offered in other departments may be substituted for elective course work towards the M.S. in biology with prior approval of the graduate advisor and dean of The Graduate College. Courses taught outside the department that do not require prior approval are: CHEM 5385 and GEO 5415, GEO 5418, GEO 5419, GEO 7417.

### Non-thesis Option

BIO 5390 Problems in the Biological Sciences (at least one term of an independent study project)	3
Select one of the following seminar options:	3-4
Option A - Take 3 hours from the following:	
BIO 5110 Seminar in Biology	
BIO 7102 Seminar in Aquatic Resources	
BIO 7120 Population Biology Seminar	
Option B - Take two seminars from Option A and:	
BIO 5295 Fundamentals of Research	
Choose 39 additional hours of elective course work <sup>1</sup>	39
<b>Total Hours</b>	<b>45-46</b>

<sup>1</sup> A maximum of two courses offered in other departments may be substituted for elective course work towards the M.S. in biology with prior approval of the graduate advisor and dean of The Graduate College. Courses taught outside the department that do not require prior approval are: CHEM 5385 and GEO 5415, GEO 5418, GEO 5419, GEO 7417.

### Non-thesis Option with Minor

BIO 5390 Problems in the Biological Sciences (at least one term of an independent study project)	3
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Select one of the following seminar options:	3-4
Option A - Take 3 hours from the following:	
BIO 5110 Seminar in Biology	
BIO 7102 Seminar in Aquatic Resources	
BIO 7120 Population Biology Seminar	
Option B - Take two seminars from Option A and:	
BIO 5295 Fundamentals of Research	
Choose 27 additional hours of elective course work <sup>1</sup>	27
Minor Course Work	12
<b>Total Hours</b>	<b>45-46</b>

<sup>1</sup> A maximum of two courses offered in other departments may be substituted for elective course work towards the M.S. in biology with prior approval of the graduate advisor and dean of The Graduate College. Courses taught outside the department that do not require prior approval are: CHEM 5385 and GEO 5415, GEO 5418, GEO 5419, GEO 7417.

### Thesis Students

Students pursuing a master's degree with thesis should have a thesis committee approved by the end of their first long term of enrollment in the graduate program. The thesis committee comprises three or more individuals and is chaired by the thesis advisor. Committee members should be selected by the student in consultation with the thesis advisor and should be chosen on the basis of what they can contribute to the student's research and/or graduate studies. Committee members expect to be consulted

### Non-thesis Students

Students pursuing a non-thesis degree are required to have a major professor by the end of their first long term of enrollment in the graduate program. The major professor will normally be a faculty member specializing in an area of particular interest to the student and is often the individual who supervises the required independent study project. Prior to the final term of enrollment the non-thesis student must, in consultation with the major professor, select a committee that will administer the final comprehensive examination. A "Master's Non-Thesis Committee form" can be downloaded from the Department of Biology's website and must be approved by the chair of the department's graduate committee and the department chair.

### Comprehensive Examination

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report" form, which can be downloaded from The Graduate College website and which must be filed in the office of The Graduate College at least 10 days prior to the date of expected graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer

to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Biology: BIO

## Courses Offered

### Biology (BIO)

#### BIO 5100. Professional Development.

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### BIO 5110. Seminar in Biology.

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350O. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 5350O, in which students will obtain first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350O

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350O

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence.

Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups. Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis.

Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Population and Conservation Biology Major Program

The program represents an interdisciplinary course of study that combines principles of population biology with strong training in measurement and analysis of biological systems augmented with the student's choice of study in particular specialties.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/pcbio.html>.

## Degree Requirements

The M.S. with a major in population and conservation biology requires a minimum 30 semester hours of course work and research leading to a thesis.

### Course Work Requirements

#### Core Courses

Select 6-8 hours of the following: 8

BIO 7336	Evolutionary Ecology
BIO 7346	Conservation Biology
BIO 7360R	Community and Ecosystem Ecology
BIO 7367	Behavioral Ecology
BIO 7427	Principles of Population Biology I
BIO 7428	Principles of Population Biology II
BIO 7433	Population Genetics
BIO 7466	Phylogenetics
BIO 7469	Introduction to Ecological Modeling

#### Statistics and Experimental Design

BIO 7405 Statistics and Experimental Design I 8  
& BIO 7406 and Statistics and Experimental Design II

#### Population Biology Seminars

BIO 7120 Population Biology Seminar (Taken twice) 2

#### Elective Courses

Select a minimum 6 hours from the following: <sup>1</sup> 6-8

BIO 5295	Fundamentals of Research
BIO 5301	Evolution
BIO 5335	Fisheries Management
BIO 5362	Environmental Impact Analysis
BIO 5410	Field Biology of Plants
BIO 5423	Wildlife Management
BIO 7414	Ecology of Infectious Diseases of Wildlife
BIO 5435	Techniques in Wildlife Management
BIO 5450	Physiological Ecology of Animals
BIO 5454	Plant Ecology
BIO 5472	Animal Behavior
BIO 7308	History of Vegetation and Climate
BIO 7325	Wildlife and Recreation: Impact, Policy, and Management
BIO 7353	Biogeography
BIO 7402	Molecular Field Techniques
BIO 7410	Aquatic Microbial Ecology
BIO 7419	Stream Ecology
BIO 7421	Landscape Dynamics
BIO 7422	Wetlands Ecology
BIO 7471	Reservoir Ecology
GEO 5415	Geographic Applications of Remote Sensing
GEO 5417	Advanced Cartographic Design
GEO 5418	Geographic Information Systems I
GEO 5419	Geographic Information Systems II

#### Thesis

Choose a minimum 6 hours 6

BIO 5199B	Thesis
BIO 5299B	Thesis

BIO 5399A	Thesis
BIO 5399B	Thesis
BIO 5599B	Thesis
BIO 5999B	Thesis
<hr/>	
Total Hours	30-32

<sup>1</sup> Electives should be chosen in consultation with the graduate advisor and major professor to allow students to specialize in particular sub-disciplines of the field, including the ecology of populations, population management, conservation biology or evolutionary ecology and genetics.

## Comprehensive Examination

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report" form, which can be downloaded from The Graduate College website and which must be filed in the office of The Graduate College at least 10 days prior to the date of expected graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject

matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the

personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Biology: BIO

## Courses Offered

### Biology (BIO)

#### **BIO 5100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### **BIO 5110. Seminar in Biology.**

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted.

Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### **BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**BIO 53500. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 53500, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 53500

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 53500

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups.

Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis. Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Wildlife Ecology

### Major Program

The master of science (M.S.) in wildlife ecology is a thesis-based degree with an emphasis on the application of ecological principles to studies in the fields of wildlife ecology and natural resource management.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/weco.html>.

### Degree Requirements

The M.S. in wildlife ecology is a thesis-based degree with an emphasis on the application of ecological principles to studies in the fields of wildlife ecology and natural resource management.

#### Statistics and Experimental Design

BIO 7405	Statistics and Experimental Design I	8
& BIO 7406	and Statistics and Experimental Design II	

#### Seminars

Select one of the following seminar options:	3-4
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Option A - Choose 3 hours from:

BIO 5110 Seminar in Biology (Repeatable for credit)

BIO 7102 Seminar in Aquatic Resources (Repeatable for credit)

Option B - Choose 2 seminars from Option A and:

BIO 5295 Fundamentals of Research

#### Thesis

Choose a minimum 6 hours	6
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BIO 5199B Thesis

BIO 5299B Thesis

BIO 5399A Thesis

BIO 5399B Thesis

BIO 5599B Thesis

BIO 5999B Thesis

#### Electives

A minimum of 13 additional hours of 5000- or 7000-level courses that relate to the student's area of interest

Total Hours	30-31
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### Comprehensive Examination

All candidates for master's degrees in the Department of Biology must pass a comprehensive final examination administered by the student's

committee. The examination may be oral or written and must cover, at a minimum, the student's field of concentration and the thesis, if one was written. The results of this exam should be reported on the "Master's Comprehensive Examination Report" form, which can be downloaded from The Graduate College website and which must be filed in the office of The Graduate College at least 10 days prior to the date of expected graduation.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor

may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Biology: BIO

## Courses Offered

### Biology (BIO)

#### **BIO 5100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### **BIO 5110. Seminar in Biology.**

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### **BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

#### **BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### **BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

#### **BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 53500. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 53500, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 53500

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 53500

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups.

Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis. Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Aquatic Resources

Choose 6 hours from:

6

BIO 5319C	Ecotoxicology
BIO 5319F	Watershed Management Frameworks and Applications
BIO 5335	Fisheries Management
BIO 5362	Environmental Impact Analysis
BIO 5390	Problems in the Biological Sciences
BIO 5415	Ichthyology
BIO 5419	Stream Ecology
BIO 5470	Limnology

Total Hours

6

## Minor in Biology

### Graduate Advisor Approved Biology Electives

Choose 15 hours of approved 5000- or 7000-level BIO courses

15

## Department of Chemistry and Biochemistry

Chemistry Building Room 238

T: 512.245.2156 F: 512.245.2374

<http://www.txstate.edu/chemistry>

The Department of Chemistry and Biochemistry is committed to excellence in educating our students and conducting high-impact research. The department offers both M.A. and M.S. degree programs. The M.S. degrees are research-based and require a thesis while the M.A. degree is course-based and requires successful completion of a cumulative examination. The curriculum provides opportunities for research and learning in all areas of chemistry and biochemistry and encourages a hands-on approach to the use of a wide variety of modern instrumentation. Many of our graduates have advanced to industrial positions and/or professional and doctoral programs, including the doctoral program in materials science, engineering, and commercialization (MSEC) at Texas State.

## Research Areas

The department's graduate faculty conducts research in numerous areas of the six fields of chemistry. Specific research areas include:

### Analytical

mass spectrometry,  
chromatography, electrochemistry,  
spectral methods



<b>Biochemistry</b>	enzyme isolation, enzyme mechanisms, ion-channel regulation, protein structure-function relationships, molecular genetics; gene delivery; nucleic acid biochemistry; ribonucleoprotein complex function and regulation; genomics; proteomics
<b>Inorganic</b>	synthesis and structure of high conductivity solid-state electrolyte compounds, boron-nitrogen compounds, bioinorganic chemistry; solid state synthesis; metal complex catalysis; intercalation chemistry; crystallography; synthetic main group organometallic chemistry
<b>Organic</b>	Synthetic organometallic chemistry; synthesis of stable carbenes and applications in small molecule activation and catalysis; chemistry of "frustrated" Lewis pairs; heterocyclic chemistry
<b>Physical Polymer</b>	molecular beam methods and laser spectroscopy; polymer synthesis; nanocomposites; thin organic films, structure-property relationships; electronic polymers

## Research Facilities

Research instruments available include 400 MHz NMR, X-ray Diffractometer, UV and IR spectrophotometers, liquid and gas chromatographs, electrospray ionization/mass spectrometer, high-speed centrifuges, TGA, DSC, DMA, particle size analyzer, GPC, epifluorescent microscope, CO<sub>2</sub> incubators, and multi-well plate readers.

## Financial Assistance

Graduate students are encouraged to work as laboratory teaching assistants. Applications can be obtained from the Chemistry and Biochemistry Department office. A limited number of research assistantships are also available at pay similar to that of laboratory teaching assistants. The Graduate College can provide information about the availability of graduate scholarships. In order to be considered for assistantships or scholarships, applicants must have submitted a completed application for review by the priority application deadline.

## Master of Arts (M.A.)

- Major in Chemistry (p. 1168)

## Master of Science (M.S.)

- Major in Biochemistry (p. 1164)
- Major in Chemistry (p. 1170)

## Minors

- Biochemistry (p. 1174)
- Chemistry (p. 1174)

# Master of Science (M.S.), Major in Biochemistry

## Major Program

This program is designed for students who have undergraduate degrees in biology, biochemistry, or chemistry and wish to pursue advanced studies in biochemistry.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/bioch.html>.

## Degree Requirements

The master of science (M.S.) degree with a major in biochemistry requires 30 semester hours of course work, the completion of a graduate research thesis presentation, and the successful completion of a comprehensive exam.

## Course Work Requirements

CHEM 5110	Seminar in Chemistry (Taken three times)	3
CHEM 5381	Physical Biochemistry	3
CHEM 5384	Current Topics in Biochemistry and Molecular Biology	3
CHEM 5386	Proteins	3
CHEM 5387	Nucleic Acids Chemistry	3
CHEM 5395	Fundamentals of Research	3
Chemistry Electives (Choose 6 hours)		6
CHEM 5320	Modern Molecular Modeling	
CHEM 5321	Advanced Organic Chemistry	
CHEM 5333	Spectroscopy	
CHEM 5365	Separation Methods in Chemical Analysis	
CHEM 5370	Problems in Chemistry	
CHEM 5382	Enzymology	
CHEM 5383	Molecular Biology & Molecular Genetics	
CHEM 5385	MPMetabolism	
CHEM 7330	Environmental Chemistry	
Thesis Courses (Choose a minimum 6 hours)		6
CHEM 5199B	Thesis	
CHEM 5299B	Thesis	
CHEM 5399A	Thesis	
CHEM 5399B	Thesis	
CHEM 5599B	Thesis	
CHEM 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer

to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Developments.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Developments.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Chemistry and Biochemistry: CHEM

## Courses Offered Chemistry (CHEM)

### CHEM 5110. Seminar in Chemistry.

A course designed to acquaint the graduate student with current research areas in chemistry. May be repeated twice for total of 3 semester hour credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CHEM 5195. Professional Development of Graduate Assistants.

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5285. Laboratory Development Practice.**

This course develops the laboratory instructional abilities of post-baccalaureate students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 5295. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5320. Modern Molecular Modeling.**

The application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, force field based molecular modeling, energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction, and mesoscale modeling. Prerequisites: CHEM 3340 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5321. Advanced Organic Chemistry.**

Study of the relation of the following topics to structure and reactions of organic compounds: bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species, and mechanisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5330. Physical Chemistry.**

Fundamentals of physical chemistry are surveyed, emphasizing application in the other chemical sub-disciplines. Topics include classical thermodynamics, kinetics, atomic structure, and molecular spectroscopy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5333. Spectroscopy.**

Study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisites: CHEM 2342 and CHEM 2142. Students who have completed CHEM 4333 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5341. Advanced Inorganic Chemistry.**

Chemical bonding, symmetry, and group theory, coordination chemistry, spectroscopy, magnetism, and organometallic compounds along with some descriptive chemistry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CHEM 5351. Introduction to Polymers and Polymer Synthesis.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Students who have completed CHEM 4351 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5353. Polymer Processing and Characterization.**

This course is designed to explore the areas of polymer processing and characterization. Students will be introduced to extrusion, injection molding, film formation, thermoforming, thermal-mechanical measurements, classical mechanical testing, thermal-optical measurements, and methods for determination of polymer molecular weight. Prerequisites: CHEM 2342 and CHEM 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5355. Physical Chemistry of Polymers.**

A study of the physical chemistry of polymers. Subjects covered include thermodynamics, kinetic polymerization, phase relationships, molecular geometry, spectroscopy of polymers, polymer physics and mechanical behavior, polymer blends, rheology, and polymer composites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5365. Separation Methods in Chemical Analysis.**

The principles of gas chromatography, capillary electrophoresis, and mass spectrometry are discussed with a balance among theory, practice, and application

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5370. Problems in Chemistry.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5375. Biochemistry.**

A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleic acids. A study of enzyme kinetics and thermodynamics of coupled reactions is included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5381. Physical Biochemistry.**

An introduction to the physical techniques of biochemistry with emphasis on the interpretation of experimental data obtained from electrophoresis, chromatography, immunological methods, ultracentrifugation, spectroscopy and emerging techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5382. Enzymology.**

A study of the chemical and physical properties of enzymes. Topics will include structure-function relationships, elucidation of chemical and kinetic mechanisms, and the role of enzymes in metabolism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5383. Molecular Biology & Molecular Genetics.**

This course addresses the basic genetic mechanisms of bacteria and eukaryotes and introduces some examples of the biochemical and genetic techniques employed to study cells, tissues, and organisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5384. Current Topics in Biochemistry and Molecular Biology.**

Course provides students with advanced knowledge in the areas of biochemistry and molecular biology. Topics include signal transduction and the molecular biology of cancer, as well as emerging topics in Genomics, Proteomics, and other new developments in biochemistry. May be repeated once for credit. Prerequisites CHEM 4360 or CHEM 5383

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5385. MPMetabolism.**

A study of biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Students who have completed CHEM 4385 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5386. Proteins.**

This course will cover advanced biochemistry topics related to proteins. Topics will include protein structure, structure-function relationships, and current methodologies for examining proteins in addition to current findings in primary literature. Prerequisite: CHEM 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5387. Nucleic Acids Chemistry.**

This course will cover advanced biochemistry topics related to nucleic acids. Topics will include nucleic acid structures and properties, catalytic nucleic acids, protein-nucleic acid interactions, higher order complexes of protein-nucleic acids, and current methodologies for examining nucleic acids in addition to current findings in primary literature. Prerequisite: CHEM 5383 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5395. Fundamentals of Research.**

Course is designed to acquaint the beginning graduate student with materials and methods of chemical research

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in CHEM 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Arts (M.A.), Major in Chemistry

### Major Program

Generally, an undergraduate major in chemistry is required for admission into this program.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at: <http://www.gradcollege.txstate.edu/chem.html>.

### Degree Requirements

The master of arts (M.A.) degree with a major in chemistry requires 30 semester hours of chemistry course work and the successful completion of a comprehensive exam.

CHEM 5370	Problems in Chemistry	3
CHEM 5395	Fundamentals of Research	3
CHEM 5365	Separation Methods in Chemical Analysis	3
CHEM 5321	Advanced Organic Chemistry	3
or CHEM 5330	Physical Chemistry	
Advisor-approved Chemistry Electives		12
Advisor-approved Electives		6
Total Hours		30

Master's level courses in Chemistry and Biochemistry: CHEM

### Courses Offered

#### Chemistry (CHEM)

**CHEM 5110. Seminar in Chemistry.**

A course designed to acquaint the graduate student with current research areas in chemistry. May be repeated twice for total of 3 semester hour credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5195. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5285. Laboratory Development Practice.**

This course develops the laboratory instructional abilities of post-baccalaureate students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 5295. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CHEM 5320. Modern Molecular Modeling.**

The application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, force field based molecular modeling, energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction, and mesoscale modeling. Prerequisites: CHEM 3340 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5321. Advanced Organic Chemistry.**

Study of the relation of the following topics to structure and reactions of organic compounds: bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species, and mechanisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5330. Physical Chemistry.**

Fundamentals of physical chemistry are surveyed, emphasizing application in the other chemical sub-disciplines. Topics include classical thermodynamics, kinetics, atomic structure, and molecular spectroscopy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5333. Spectroscopy.**

Study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisites: CHEM 2342 and CHEM 2142. Students who have completed CHEM 4333 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5341. Advanced Inorganic Chemistry.**

Chemical bonding, symmetry, and group theory, coordination chemistry, spectroscopy, magnetism, and organometallic compounds along with some descriptive chemistry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CHEM 5351. Introduction to Polymers and Polymer Synthesis.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Students who have completed CHEM 4351 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5353. Polymer Processing and Characterization.**

This course is designed to explore the areas of polymer processing and characterization. Students will be introduced to extrusion, injection molding, film formation, thermoforming, thermal-mechanical measurements, classical mechanical testing, thermal-optical measurements, and methods for determination of polymer molecular weight. Prerequisites: CHEM 2342 and CHEM 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5355. Physical Chemistry of Polymers.**

A study of the physical chemistry of polymers. Subjects covered include thermodynamics, kinetic polymerization, phase relationships, molecular geometry, spectroscopy of polymers, polymer physics and mechanical behavior, polymer blends, rheology, and polymer composites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5365. Separation Methods in Chemical Analysis.**

The principles of gas chromatography, capillary electrophoresis, and mass spectrometry are discussed with a balance among theory, practice, and application

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5370. Problems in Chemistry.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5375. Biochemistry.**

A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleic acids. A study of enzyme kinetics and thermodynamics of coupled reactions is included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5381. Physical Biochemistry.**

An introduction to the physical techniques of biochemistry with emphasis on the interpretation of experimental data obtained from electrophoresis, chromatography, immunological methods, ultracentrifugation, spectroscopy and emerging techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5382. Enzymology.**

A study of the chemical and physical properties of enzymes. Topics will include structure-function relationships, elucidation of chemical and kinetic mechanisms, and the role of enzymes in metabolism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5383. Molecular Biology & Molecular Genetics.**

This course addresses the basic genetic mechanisms of bacteria and eukaryotes and introduces some examples of the biochemical and genetic techniques employed to study cells, tissues, and organisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5384. Current Topics in Biochemistry and Molecular Biology.**

Course provides students with advanced knowledge in the areas of biochemistry and molecular biology. Topics include signal transduction and the molecular biology of cancer, as well as emerging topics in Genomics, Proteomics, and other new developments in biochemistry. May be repeated once for credit. Prerequisites CHEM 4360 or CHEM 5383

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5385. MPMetabolism.**

A study of biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Students who have completed CHEM 4385 or its equivalent may not take this course for master's credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CHEM 5386. Proteins.**

This course will cover advanced biochemistry topics related to proteins. Topics will include protein structure, structure-function relationships, and current methodologies for examining proteins in addition to current findings in primary literature. Prerequisite: CHEM 5375  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CHEM 5387. Nucleic Acids Chemistry.**

This course will cover advanced biochemistry topics related to nucleic acids. Topics will include nucleic acid structures and properties, catalytic nucleic acids, protein-nucleic acid interactions, higher order complexes of protein-nucleic acids, and current methodologies for examining nucleic acids in addition to current findings in primary literature. Prerequisite: CHEM 5383 or equivalent  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CHEM 5390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CHEM 5395. Fundamentals of Research.**

Course is designed to acquaint the beginning graduate student with materials and methods of chemical research  
**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CHEM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in CHEM 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CHEM 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CHEM 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CHEM 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Chemistry

### Major Program

This program is designed to train professional chemists, enhance the training of chemistry teachers, and provide adequate background for further advanced study. Generally, an undergraduate major in chemistry is required for admission into this program.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/chem.html>.

### Degree Requirements

The master of science (M.S.) degree with a major in chemistry requires 30 semester hours of course work, the completion of a graduate research thesis, and the successful completion of a comprehensive exam.

CHEM 5110	Seminar in Chemistry (Taken 3 times)	3
CHEM 5395	Fundamentals of Research	3
Chemistry Electives (Choose 18 hours)		18
CHEM 5320	Modern Molecular Modeling	
CHEM 5321	Advanced Organic Chemistry	
CHEM 5330	Physical Chemistry	
CHEM 5333	Spectroscopy	
CHEM 5351	Introduction to Polymers and Polymer Synthesis	
CHEM 5353	Polymer Processing and Characterization	
CHEM 5365	Separation Methods in Chemical Analysis	
CHEM 5370	Problems in Chemistry	
CHEM 7330	Environmental Chemistry	
Thesis Courses (Choose a minimum 6 hours)		6
CHEM 5199B	Thesis	
CHEM 5299B	Thesis	
CHEM 5399A	Thesis	
CHEM 5399B	Thesis	
CHEM 5599B	Thesis	
CHEM 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer

to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Developments.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Developments.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Chemistry and Biochemistry: CHEM

## Courses Offered Chemistry (CHEM)

### CHEM 5110. Seminar in Chemistry.

A course designed to acquaint the graduate student with current research areas in chemistry. May be repeated twice for total of 3 semester hour credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### CHEM 5195. Professional Development of Graduate Assistants.

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5285. Laboratory Development Practice.**

This course develops the laboratory instructional abilities of post-baccalaureate students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 5295. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5320. Modern Molecular Modeling.**

The application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, force field based molecular modeling, energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction, and mesoscale modeling. Prerequisites: CHEM 3340 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5321. Advanced Organic Chemistry.**

Study of the relation of the following topics to structure and reactions of organic compounds: bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species, and mechanisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5330. Physical Chemistry.**

Fundamentals of physical chemistry are surveyed, emphasizing application in the other chemical sub-disciplines. Topics include classical thermodynamics, kinetics, atomic structure, and molecular spectroscopy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5333. Spectroscopy.**

Study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisites: CHEM 2342 and CHEM 2142. Students who have completed CHEM 4333 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5341. Advanced Inorganic Chemistry.**

Chemical bonding, symmetry, and group theory, coordination chemistry, spectroscopy, magnetism, and organometallic compounds along with some descriptive chemistry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CHEM 5351. Introduction to Polymers and Polymer Synthesis.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Students who have completed CHEM 4351 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5353. Polymer Processing and Characterization.**

This course is designed to explore the areas of polymer processing and characterization. Students will be introduced to extrusion, injection molding, film formation, thermoforming, thermal-mechanical measurements, classical mechanical testing, thermal-optical measurements, and methods for determination of polymer molecular weight. Prerequisites: CHEM 2342 and CHEM 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CHEM 5355. Physical Chemistry of Polymers.**

A study of the physical chemistry of polymers. Subjects covered include thermodynamics, kinetic polymerization, phase relationships, molecular geometry, spectroscopy of polymers, polymer physics and mechanical behavior, polymer blends, rheology, and polymer composites  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5365. Separation Methods in Chemical Analysis.**

The principles of gas chromatography, capillary electrophoresis, and mass spectrometry are discussed with a balance among theory, practice, and application

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5370. Problems in Chemistry.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5375. Biochemistry.**

A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleic acids. A study of enzyme kinetics and thermodynamics of coupled reactions is included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5381. Physical Biochemistry.**

An introduction to the physical techniques of biochemistry with emphasis on the interpretation of experimental data obtained from electrophoresis, chromatography, immunological methods, ultracentrifugation, spectroscopy and emerging techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5382. Enzymology.**

A study of the chemical and physical properties of enzymes. Topics will include structure-function relationships, elucidation of chemical and kinetic mechanisms, and the role of enzymes in metabolism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5383. Molecular Biology & Molecular Genetics.**

This course addresses the basic genetic mechanisms of bacteria and eukaryotes and introduces some examples of the biochemical and genetic techniques employed to study cells, tissues, and organisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5384. Current Topics in Biochemistry and Molecular Biology.**

Course provides students with advanced knowledge in the areas of biochemistry and molecular biology. Topics include signal transduction and the molecular biology of cancer, as well as emerging topics in Genomics, Proteomics, and other new developments in biochemistry. May be repeated once for credit. Prerequisites CHEM 4360 or CHEM 5383

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5385. MPMetabolism.**

A study of biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Students who have completed CHEM 4385 or its equivalent may not take this course for master's credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5386. Proteins.**

This course will cover advanced biochemistry topics related to proteins. Topics will include protein structure, structure-function relationships, and current methodologies for examining proteins in addition to current findings in primary literature. Prerequisite: CHEM 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5387. Nucleic Acids Chemistry.**

This course will cover advanced biochemistry topics related to nucleic acids. Topics will include nucleic acid structures and properties, catalytic nucleic acids, protein-nucleic acid interactions, higher order complexes of protein-nucleic acids, and current methodologies for examining nucleic acids in addition to current findings in primary literature. Prerequisite: CHEM 5383 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5395. Fundamentals of Research.**

Course is designed to acquaint the beginning graduate student with materials and methods of chemical research

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in CHEM 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**CHEM 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Biochemistry

Choose 6 hours from the following:

CHEM 5381	Physical Biochemistry	6
CHEM 5382	Enzymology	
CHEM 5383	Molecular Biology & Molecular Genetics	
CHEM 5384	Current Topics in Biochemistry and Molecular Biology	
CHEM 5385	MPMetabolism	

Total Hours 6

## Minor in Chemistry

### Graduate Advisor-approved Chemistry Electives

Choose 6 hours of approved 5000-level CHEM classes 6

## Department of Computer Science

Comal Building Room 211

PH: 512.245.3409 FAX: 512.245.8750

<http://www.cs.txstate.edu/>

The Department of Computer Science at Texas State is the hub of computing related education and research activities on the campus.

The department is on a mission to advance the knowledge of computer science and technology through education, research, and service for the betterment of industry, government, and society. We seek to become a competitive doctoral-granting department and to expand our depth and breadth in the research and study of applied computing.

Computer science faculty members actively pursue research in artificial intelligence, bioinformatics, computer communication and networking, computer security, database and information systems, distributed and parallel computing, human computer interaction, image retrieval, multimedia computing, sensor networks, social computing, and software engineering. The faculty's research has been supported by federal and state agencies and industry such as NSF, NIST, DoD, DoE, PNNL, LLNL, TxDOT, Semiconductor Research Consortium, IBM, Intel, NVidia, and Emerson. Our faculty members have obtained prestigious awards like NSF CAREER Awards and IBM Faculty Fellowship.

Computer science students take courses in a well-designed curriculum taught by the department's faculty members who are accessible, nurturing, and eager to engage students in learning and research. Students have access to an array of hardware, system software, and applications in our first-class computing laboratories.

## Non-graduate Degree Credit

Individuals may apply for "non-degree seeking student" admission through The Graduate College to enroll in computer science background courses before completing the GRE requirement.

Please note: International students must meet specific admission requirements, including acceptable TOEFL or IELTS scores. Please refer to the "Non-Degree-Seeking Applicants (p. 561)" section of this catalog.

## Teacher Certification

The University's Undergraduate Catalog provides information regarding the available teacher certification programs related to computer science.

## Master of Arts (M.A.)

- Major in Computer Science (p. 1174)

## Master of Science (M.S.)

- Major in Computer Science (p. 1179)
- Major in Software Engineering (p. 1185)

## Minors

- Computer Science (p. 1190)
- Forensic Systems (p. 1191)
- Software Engineering (p. 1191)

## Master of Arts (M.A.), Major in Computer Science

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cs.html>.

## Non-graduate Degree Credit

Individuals may apply for "non-degree seeking student" admission through The Graduate College to enroll in computer science background courses before completing the GRE requirement. Please note: international students must meet specific admission requirements, including acceptable TOEFL or IELTS scores. Please refer to the "Categories of Admission" section of this catalog.

## Degree Requirements

The master of arts (M.A.) degree with a major in computer science requires:

1. Thesis option (30-hour degree): Completion of 15 hours of graduate core courses, an additional 3 hours of graduate computer science electives, an additional 6 hours of an approved minor, and completion of a thesis. The thesis must be accepted by a departmental supervisory committee of graduate faculty members, the department chair, and the dean of the Graduate College. The thesis program requires a minimum enrollment of 6 hours in CS 5399A and CS 5399B. Thesis credit requirement information is provided in the "Degree Information" thesis requirements section of the catalog.
2. Non-thesis option (36-semester hour degree): Completion of 15 hours of graduate core courses, an additional 12 hours of graduate computer science electives, an additional 9 hours of an approved minor.

## Course Work Requirements

### Non-thesis Option

#### Core Course Work

CS 5329	Algorithm Design and Analysis	3
CS 5346	Advanced Artificial Intelligence	3
CS 5391	Survey of Software Engineering	3
Choose 3 hours from:		3
CS 5306	Advanced Operating Systems	
CS 5310	Network and Communication Systems	
CS 5332	Data Base Theory and Design	
CS 5318	Principles of Programming Languages	3
or CS 5338	Formal Languages	
<b>Advisor Approved Electives</b>		
Choose 12 hours of 5000-level CS courses		12
<b>Minor Course Work</b>		
Choose a 9-hour minor		9
Total Hours		36

### Thesis Option

#### Core Course Work

CS 5329	Algorithm Design and Analysis	3
CS 5346	Advanced Artificial Intelligence	3
CS 5391	Survey of Software Engineering	3
Choose 3 hours from:		3
CS 5306	Advanced Operating Systems	
CS 5310	Network and Communication Systems	
CS 5332	Data Base Theory and Design	
CS 5318	Principles of Programming Languages	3
or CS 5338	Formal Languages	

#### Advisor Approved Electives

Choose 3 hours of 5000-level CS courses		3
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#### Minor Course Work

Choose a 6-hour minor		6
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#### Thesis Course Work

Choose a minimum 6 hours		6
CS 5199B	Thesis	
CS 5299B	Thesis	
CS 5399A	Thesis	
CS 5399B	Thesis	
CS 5599B	Thesis	
CS 5999B	Thesis	
Total Hours		30

## Background Requirements

Students are required to fulfill background course work if they do not have adequate undergraduate computer science background. The background requirements may be reduced if evidence is presented which shows that the applicant has taken equivalent courses elsewhere prior to enrollment at Texas State. Background work must be completed before enrolling in graduate courses.

The minimum undergraduate background requirements for computer science and software engineering majors are:

#### Computer Science Course Work <sup>1</sup>

CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3

CS 2318	Assembly Language	3
CS 2420	Digital Logic	4
CS 3339	Computer Architecture	3
CS 3358	Data Structures and Algorithms	3
CS 4318	Compiler Construction	3
or CS 4328	Operating Systems	
Advanced computer science electives (CS 3000-4000 level)		6
<b>Mathematics Course Work <sup>2</sup></b>		
MATH 5358	Applied Discrete Mathematics (or equivalent)	3
Calculus		8
Total Hours		40

<sup>1</sup> These courses must be completed with no grade less than "C" and no more than two "Cs."

<sup>2</sup> These courses must be completed with no grade less than "C."

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive**

**thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Computer Science: CS

## Courses Offered

### Computer Science (CS)

#### CS 5100. Advanced Computer Science Internship.

This course provides advanced training supervised by computer scientists in internship programs approved by the department. Course cannot be counted toward any graduate degree, is open only to majors in the Department of Computer Science. May be repeated once but not for credit and requires approval of the department chair

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5300. Professional Development of Graduate Assistants.

This course is designed to develop and enhance the professional and technical skills of graduate teaching and instructional assistants. Topics covered may include, but are not limited to, teaching skills, technical skills, ethical and legal issues, and laboratory management. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CS 5301. Programming Practicum.

Intensive review of programming through data structures. Includes syntax, semantics, problem solving, algorithm development, and in-class exercises. May be repeated once. Does not count for credit toward any graduate degree. Prerequisite: CS 3358 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### CS 5306. Advanced Operating Systems.

A study of modern operating systems including network, distributed, or real-time systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### CS 5310. Network and Communication Systems.

A study of network and communication systems. Verification and/or implementation of protocols will be required. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5316. Data Mining.**

This course covers fundamental concepts and techniques plus recent developments in data mining and information retrieval. It provides relevant research training and practice opportunities. May not be taken for credit if student received credit for CS 4315. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5318. Principles of Programming Languages.**

This course focuses on the principles of programming languages. Topics covered include programming paradigms, concepts of programming languages, formal syntax and semantics, and language implementation issues. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5326. Advanced Studies in Human Factors of Computer Science.**

Professional level presentation of techniques and research findings related to human-computer interactions. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5329. Algorithm Design and Analysis.**

Introduction to algorithm design and analysis, computational complexity, NP – completeness theory. Prerequisites: CS 3358, MATH 2472, and MATH 3398 or MATH 5358 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5331. Crafting Compilers.**

Overview of the internal structure of modern compilers. Research on compilation techniques. Topics include lexical scanning, parsing techniques, static type checking, code generation, dataflow analysis, storage management, and execution environments. Prerequisite: CS 3358 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5332. Data Base Theory and Design.**

Computer system organization for the management of data; data models, data model theory, optimization and normalization; integrity constraints; query languages; intelligent database systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5334. Advanced Internet Information Processing.**

Integration of popular scripting languages (Perl, JavaScript, PHP, and other CGI capable languages) and database programming languages (embedded database programming languages, JavaServlets, and PHP) to provide advanced information processing for Internet applications that demand both database support and sophisticated, application specific information processing. Prerequisite: CS 4332 or CS 5332 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5335. Research in Object-Oriented System Development.**

The course covers the object-oriented methodologies for system analysis, design, implementation, testing, and other aspects of system development. Emphasis will be on using OO methodologies to manage the complexity of complicated software. Other topics like modeling, OODB, and OO languages will also be covered. Prerequisites: CS 3358, and either CS 4332 or CS 5332 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5338. Formal Languages.**

Advanced topics in automata theory, grammars, Turing machines, decidability, and algorithmic complexity. Prerequisites: CS 3358 and MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5341. Advanced Network Programming.**

Study of advanced concepts and programming skills in computer networks such as advanced TCP/IP, API, multicasting and broadcasting, reliable communications, advanced I/O functions and options.

Prerequisite: CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5343. Wireless Communications and Networks.**

Study of the fundamental aspects of wireless communications and wireless/mobile networks, introduction of wireless/mobile networking APIs. Prerequisites: CS 3358 with a grade of B or higher and CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5346. Advanced Artificial Intelligence.**

Knowledge representation; knowledge engineering; parallel and distributed AI; heuristic searches; machine learning and intelligent databases; implementation of systems in high-level AI languages.

Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5348. Computer Organization and Design.**

This course covers the dynamic interaction of the computer system building blocks and their management. Course topics include the design of the instruction set, high speed arithmetic, memory hierarchy, and control units. Computer system performance evaluation methodology and techniques are also covered. Prerequisites: CS 3339 and CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5351. Parallel Processing.**

Introduction to the design and analysis of parallel algorithms, parallel architectures, and computers. Prerequisites: CS 3358, CS 3409, and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 5352. Distributed Computing.**

Study of advanced topics in distributed systems: concurrency control and failure recovery, management of replicated data, distributed consensus and fault tolerance, remote procedure calls, naming and security.

Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5369D. Advanced Digital Forensics.**

This course provides a comprehensive understanding of the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices and media, and communication networks. The course covers recent research material published in the field. Hands-on experience will be acquired through case studies and projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369G. Web Service Engineering.**

Advanced concepts and techniques for enabling Web application integration and interaction using Semantic Web and Web services. Concepts and techniques include service discovery ontology (RDF, DAML-S), XML-based interactions standards (ebXML, RossettaNet) and Web Services (WSDL, SOAP, UDDI, BPEL). Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369J. Advanced Human Computer Interaction.**

This course will cover state of the art human computer interaction topics such as perceptual compression, eye-gaze, and brain computer interfaces with emphasis on the human visual system, eye-tracking, and electroencephalography. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369L. Machine Learning and Applications.**

Provides broad introduction to machine learning, including learning theory, and recent topics like support vector machines and feature selection. Covers basic ideas, intuition, and understanding behind modern machine learning methods. Discusses applications like face recognition, text recognition, biometrics, bioinformatics, and multimedia retrieval. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369M. Software Evolution and Maintenance.**

Software evolution and maintenance is one of the most important and complex activities in software engineering. Programmers rarely build software from scratch but often modify existing software to fix defects or add new features. This course studies the fundamentals of cutting-edge techniques and tools for software evolution and maintenance.

Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369Q. Recommender Systems.**

This course covers various concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences.

Discussion of how recommender systems are deployed in business applications, design of new recommender experiences, and how to conduct and evaluate research in recommender systems. Cannot take for credit if already took CS 4379Q. Prerequisite: CS 3358 with a grade of C or higher or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369R. Research in Digital Forensics.**

Students will design and implement computer-based forensic tools applicable to an instructor chosen domain

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369Y. Green Computing.**

Reducing mobile device, cloud computing platform, and supercomputer energy consumption is a paramount, daunting problem. This course covers state-of-the-art green computing research, including energy-efficient hardware and software design, power-aware resource management and storage solutions, green data centers and mobile computing. Cannot be taken for credit if received CS 4379Y credit.

Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5374. Neural Networks.**

A study of neural computing, including basic concepts, algorithms, and applications; back propagation and counter propagation networks; Hopfield networks; associative memories; massively parallel neural architectures; adaptive resonance theory; optical neural networks; connectionist approaches. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5375. Multimedia Computing.**

A study of the digital representation and processing of major multimedia data types: image, audio, and video. Compression techniques for the three data types, standards, and storage media. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5376. Enterprise Application Integration.**

Introduction to the integration of all services available on the Web. It emphasizes component-based integration frameworks based on J2EE specification (EJB, Servlets, JMS), inter-organization workflow integration frameworks, and XML framework. Students must have knowledge of object-oriented design, object-oriented programming language, databases, and networking. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 5378. Advanced Computer Security.**

This course covers various aspects of producing secure computer information systems that provide guaranteed controlled sharing. Emphasis is on software models and design, including discovery and prevention of computing systems security vulnerabilities. Current systems and methods are examined and critiqued. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5388. Advanced Computer Graphics.**

A study of the algorithms and data structures used in representing and processing visual data. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5389. Graphical User Interfaces.**

Covers both abstract and practical treatments of using graphics to implement interactive computer/human interfaces. Includes a survey of the major GUI standards and tools. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5391. Survey of Software Engineering.**

A study of the software life cycle with emphasis on system analysis and design. Methodologies based on data flows and on objects will be surveyed. A component on professional ethics is included. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5392. Formal Methods in Software Engineering.**

The use of design and specification languages in producing software systems. Emphasis is placed on proving correctness of designs and implementations. Prerequisites: CS 3358 and CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5393. Software Quality.**

The latter half of the software life cycle is discussed. Topics include testing, performance evaluation, and software metrics. Appropriate software tools are studied and used. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5394. Advanced Software Engineering Project.**

Students produce a software project of significant size in a team environment. All aspects of the software engineering course sequence are integrated and put into practice. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**CS 5395. Independent Study in Advanced Computer Science.**

Open to graduate students on an independent basis by arrangement with the faculty member concerned. Course is not repeatable for credit. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CS 5396. Advanced Software Engineering Processes and Methods.**

The essentials of software engineering processes, methods, and tools for the evolutionary design of complex interactive software are discussed. Overviews of other topics like quality concepts, SEI CMM, information technology, and network technology are covered. Student completes a literature survey of the latest software engineering analysis and design processes, methods, and tools. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**CS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in CS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**CS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Computer Science

### Major Program

The programs in computer science are designed to prepare students for doctoral research, college teaching, careers in computer science and software engineering, and careers in digital forensics.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/cs.html>.

### Degree Requirements

1. Thesis option (30-semester hour degree): Completion of 12 hours of graduate core courses, an additional 12 hours of graduate computer science electives, and completion of a thesis. The thesis must be accepted by a departmental supervisory committee of graduate faculty members, the department Chair, and the Dean of the Graduate College. The thesis program requires a minimum enrollment of 6 hours in CS 5399A and CS 5399B. Thesis credit requirement information is provided in the "Degree Information"

thesis requirements section of the catalog. Students who select a minor may replace 6 graduate hours of computer science electives with 6 graduate hours of an approved minor.

2. Non-thesis option (36-semester hour degree): Completion of 12 hours of graduate core courses and an additional 24 hours of graduate computer science electives. Students who select a minor may replace 9 graduate hours of computer science electives with 9 graduate hours of an approved minor.

## Course Work Requirements

### 36-hour Non-thesis Option with Science Minor

#### Core Course Work

Group 1	3
CS 5329	Algorithm Design and Analysis
Group 2	3
CS 5346	Advanced Artificial Intelligence
or CS 5391	Survey of Software Engineering
Group 3 (Choose 3 hours)	3
CS 5306	Advanced Operating Systems
CS 5310	Network and Communication Systems
CS 5332	Data Base Theory and Design
Group 4 (Choose 3 hours)	3
CS 5318	Principles of Programming Languages
CS 5338	Formal Languages
CS 5351	Parallel Processing

#### Advisor Approved Electives

Choose 15 hours of 5000-level CS course work 15

#### Minor Course Work

Choose 9-hour Science Minor 9

Total Hours 36

### 30-hour Thesis Option with Science Minor

#### Core Course Work

Group 1	3
CS 5329	Algorithm Design and Analysis
Group 2	3
CS 5346	Advanced Artificial Intelligence
or CS 5391	Survey of Software Engineering
Group 3 (Choose 3 hours)	3
CS 5306	Advanced Operating Systems
CS 5310	Network and Communication Systems
CS 5332	Data Base Theory and Design
Group 4 (Choose 3 hours)	3
CS 5318	Principles of Programming Languages
CS 5338	Formal Languages
CS 5351	Parallel Processing

#### Advisor Approved Electives

Choose 6 hours of 5000-level CS course work 6

#### Minor Course Work

Choose 6-hour Science Minor 6

#### Thesis Course Work

Choose a minimum 6 hours 6

CS 5199B	Thesis
CS 5299B	Thesis

CS 5399A	Thesis
CS 5399B	Thesis
CS 5599B	Thesis
CS 5999B	Thesis

Total Hours 30

### 36-hour Non-thesis Option

#### Core Course Work

Group 1	3
CS 5329	Algorithm Design and Analysis
Group 2	3
CS 5346	Advanced Artificial Intelligence
or CS 5391	Survey of Software Engineering
Group 3 (Choose 3 hours)	3
CS 5306	Advanced Operating Systems
CS 5310	Network and Communication Systems
CS 5332	Data Base Theory and Design
Group 4 (Choose 3 hours)	3
CS 5318	Principles of Programming Languages
CS 5338	Formal Languages
CS 5351	Parallel Processing

#### Advisor Approved Electives

Choose 24 hours of 5000-level CS course work 24

Total Hours 36

### 30-hour Thesis Option

#### Core Course Work

Group 1	3
CS 5329	Algorithm Design and Analysis
Group 2	3
CS 5346	Advanced Artificial Intelligence
or CS 5391	Survey of Software Engineering
Group 3 (Choose 3 hours)	3
CS 5306	Advanced Operating Systems
CS 5310	Network and Communication Systems
CS 5332	Data Base Theory and Design
Group 4 (Choose 3 hours)	3
CS 5318	Principles of Programming Languages
CS 5338	Formal Languages
CS 5351	Parallel Processing

#### Advisor Approved Electives

Choose 12 hours of 5000-level CS course work 12

#### Thesis Course Work

Choose a minimum 6 hours 6

CS 5199B	Thesis
CS 5299B	Thesis
CS 5399A	Thesis
CS 5399B	Thesis
CS 5599B	Thesis
CS 5999B	Thesis

Total Hours 30

**36-hour Non-thesis Option with Forensic Systems Minor**

CS 5310	Network and Communication Systems	3
CS 5329	Algorithm Design and Analysis	3
CS 5346	Advanced Artificial Intelligence	3
CS 5306	Advanced Operating Systems	3
CS 5369R	Research in Digital Forensics	3
CS 5316	Data Mining	3
CS 5378	Advanced Computer Security	3
CS 5391	Survey of Software Engineering	3

**Minor in Forensic Science**

Choose 12 hours of advisor approved electives	12
<b>Total Hours</b>	<b>36</b>

**30-hour Thesis Option with Forensic Systems Minor**

CS 5378	Advanced Computer Security	3
Computer Science Electives (Choose 15 hours)	15	
CS 5306	Advanced Operating Systems	
CS 5310	Network and Communication Systems	
CS 5316	Data Mining	
CS 5329	Algorithm Design and Analysis	
CS 5346	Advanced Artificial Intelligence	
CS 5369R	Research in Digital Forensics	
CS 5391	Survey of Software Engineering	

**Minor in Forensic Science**

Choose 6 hours of advisor approved electives	6
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**Thesis Course Work**

Choose a minimum 6 hours	6	
CS 5199B	Thesis	
CS 5299B	Thesis	
CS 5399A	Thesis	
CS 5399B	Thesis	
CS 5599B	Thesis	
CS 5999B	Thesis	
<b>Total Hours</b>	<b>30</b>	

**Background Requirements**

Students are required to fulfill background course work if they do not have adequate undergraduate computer science background. The background requirements may be reduced if evidence is presented which shows that the applicant has taken equivalent courses elsewhere prior to enrollment at Texas State. Background work must be completed before enrolling in graduate courses.

The minimum undergraduate background requirements for **computer science** majors are:

**Computer Science Course Work**<sup>1</sup>

CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3
CS 2318	Assembly Language	3
CS 2420	Digital Logic	4
CS 3339	Computer Architecture	3
CS 3358	Data Structures and Algorithms	3
CS 4318	Compiler Construction	3

or CS 4328	Operating Systems	
Advanced computer science electives (CS 3000-4000 level)	6	
<b>Mathematics Course Work</b> <sup>2</sup>		
MATH 5358	Applied Discrete Mathematics (or equivalent)	3
Calculus	8	
<b>Total Hours</b>	<b>40</b>	

<sup>1</sup> These courses must be completed with no grade less than "C" and no more than two "Cs."

<sup>2</sup> These courses must be completed with no grade less than "C."

The minimum undergraduate background requirements for computer science majors with a **forensic systems minor** are:

**Computer Science Course Work**<sup>1</sup>

CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3
CS 2315	Computer Ethics	3
CS 2420	Digital Logic	4
CS 2318	Assembly Language	3
CS 3358	Data Structures and Algorithms	3
CS 4310	Computer Networks	3
CS 4328	Operating Systems	3
CS 4332	Introduction to Database Systems	3

**Mathematics Course Work**

MATH 2471	Calculus I	4
MATH 2472	Calculus II	4
MATH 5358	Applied Discrete Mathematics	3

**Other Course Work**

ENG 3313	Software Documentation for Computer Science Majors	3
or ENG 5313	Studies in Principles of Technical Communication	
<b>Total Hours</b>	<b>43</b>	

<sup>1</sup> These courses must be completed with no grade less than "C" and no more than two "Cs".

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

**Thesis Proposal**

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research

involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

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1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Computer Science: CS

## Courses Offered

### Computer Science (CS)

#### CS 5100. Advanced Computer Science Internship.

This course provides advanced training supervised by computer scientists in internship programs approved by the department. Course cannot be counted toward any graduate degree, is open only to majors in the Department of Computer Science. May be repeated once but not for credit and requires approval of the department chair

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5300. Professional Development of Graduate Assistants.

This course is designed to develop and enhance the professional and technical skills of graduate teaching and instructional assistants. Topics covered may include, but are not limited to, teaching skills, technical skills, ethical and legal issues, and laboratory management. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CS 5301. Programming Practicum.**

Intensive review of programming through data structures. Includes syntax, semantics, problem solving, algorithm development, and in-class exercises. May be repeated once. Does not count for credit toward any graduate degree. Prerequisite: CS 3358 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CS 5306. Advanced Operating Systems.**

A study of modern operating systems including network, distributed, or real-time systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5310. Network and Communication Systems.**

A study of network and communication systems. Verification and/or implementation of protocols will be required. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5316. Data Mining.**

This course covers fundamental concepts and techniques plus recent developments in data mining and information retrieval. It provides relevant research training and practice opportunities. May not be taken for credit if student received credit for CS 4315. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5318. Principles of Programming Languages.**

This course focuses on the principles of programming languages. Topics covered include programming paradigms, concepts of programming languages, formal syntax and semantics, and language implementation issues. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5326. Advanced Studies in Human Factors of Computer Science.**

Professional level presentation of techniques and research findings related to human-computer interactions. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5329. Algorithm Design and Analysis.**

Introduction to algorithm design and analysis, computational complexity, NP – completeness theory. Prerequisites: CS 3358, MATH 2472, and MATH 3398 or MATH 5358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5331. Crafting Compilers.**

Overview of the internal structure of modern compilers. Research on compilation techniques. Topics include lexical scanning, parsing techniques, static type checking, code generation, dataflow analysis, storage management, and execution environments. Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5332. Data Base Theory and Design.**

Computer system organization for the management of data; data models, data model theory, optimization and normalization; integrity constraints; query languages; intelligent database systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5334. Advanced Internet Information Processing.**

Integration of popular scripting languages (Perl, JavaScript, PHP, and other CGI capable languages) and database programming languages (embedded database programming languages, JavaServlets, and PHP) to provide advanced information processing for Internet applications that demand both database support and sophisticated, application specific information processing. Prerequisite: CS 4332 or CS 5332 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5335. Research in Object-Oriented System Development.**

The course covers the object-oriented methodologies for system analysis, design, implementation, testing, and other aspects of system development. Emphasis will be on using OO methodologies to manage the complexity of complicated software. Other topics like modeling, OODB, and OO languages will also be covered. Prerequisites: CS 3358, and either CS 4332 or CS 5332 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5338. Formal Languages.**

Advanced topics in automata theory, grammars, Turing machines, decidability, and algorithmic complexity. Prerequisites: CS 3358 and MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5341. Advanced Network Programming.**

Study of advanced concepts and programming skills in computer networks such as advanced TCP/IP, API, multicasting and broadcasting, reliable communications, advanced I/O functions and options. Prerequisite: CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5343. Wireless Communications and Networks.**

Study of the fundamental aspects of wireless communications and wireless/mobile networks, introduction of wireless/mobile networking APIs. Prerequisites: CS 3358 with a grade of B or higher and CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5346. Advanced Artificial Intelligence.**

Knowledge representation; knowledge engineering; parallel and distributed AI; heuristic searches; machine learning and intelligent databases; implementation of systems in high-level AI languages. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 5348. Computer Organization and Design.**

This course covers the dynamic interaction of the computer system building blocks and their management. Course topics include the design of the instruction set, high speed arithmetic, memory hierarchy, and control units. Computer system performance evaluation methodology and techniques are also covered. Prerequisites: CS 3339 and CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5351. Parallel Processing.**

Introduction to the design and analysis of parallel algorithms, parallel architectures, and computers. Prerequisites: CS 3358, CS 3409, and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5352. Distributed Computing.**

Study of advanced topics in distributed systems: concurrency control and failure recovery, management of replicated data, distributed consensus and fault tolerance, remote procedure calls, naming and security.

Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5369D. Advanced Digital Forensics.**

This course provides a comprehensive understanding of the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices and media, and communication networks. The course covers recent research material published in the field. Hands-on experience will be acquired through case studies and projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369G. Web Service Engineering.**

Advanced concepts and techniques for enabling Web application integration and interaction using Semantic Web and Web services. Concepts and techniques include service discovery ontology (RDF, DAML-S), XML-based interactions standards (ebXML, RossettaNet) and Web Services (WSDL, SOAP, UDDI, BPEL). Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369J. Advanced Human Computer Interaction.**

This course will cover state of the art human computer interaction topics such as perceptual compression, eye-gaze, and brain computer interfaces with emphasis on the human visual system, eye-tracking, and electroencephalography. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369L. Machine Learning and Applications.**

Provides broad introduction to machine learning, including learning theory, and recent topics like support vector machines and feature selection. Covers basic ideas, intuition, and understanding behind modern machine learning methods. Discusses applications like face recognition, text recognition, biometrics, bioinformatics, and multimedia retrieval. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369M. Software Evolution and Maintenance.**

Software evolution and maintenance is one of the most important and complex activities in software engineering. Programmers rarely build software from scratch but often modify existing software to fix defects or add new features. This course studies the fundamentals of cutting-edge techniques and tools for software evolution and maintenance.

Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369Q. Recommender Systems.**

This course covers various concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences. Discussion of how recommender systems are deployed in business applications, design of new recommender experiences, and how to conduct and evaluate research in recommender systems. Cannot take for credit if already took CS 4379Q. Prerequisite: CS 3358 with a grade of C or higher or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369R. Research in Digital Forensics.**

Students will design and implement computer-based forensic tools applicable to an instructor chosen domain

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369Y. Green Computing.**

Reducing mobile device, cloud computing platform, and supercomputer energy consumption is a paramount, daunting problem. This course covers state-of-the-art green computing research, including energy-efficient hardware and software design, power-aware resource management and storage solutions, green data centers and mobile computing. Cannot be taken for credit if received CS 4379Y credit.

Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5374. Neural Networks.**

A study of neural computing, including basic concepts, algorithms, and applications; back propagation and counter propagation networks; Hopfield networks; associative memories; massively parallel neural architectures; adaptive resonance theory; optical neural networks; connectionist approaches. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5375. Multimedia Computing.**

A study of the digital representation and processing of major multimedia data types: image, audio, and video. Compression techniques for the three data types, standards, and storage media. Prerequisite: CS 3358  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5376. Enterprise Application Integration.**

Introduction to the integration of all services available on the Web. It emphasizes component-based integration frameworks based on J2EE specification (EJB, Servlets, JMS), inter-organization workflow integration frameworks, and XML framework. Students must have knowledge of object-oriented design, object-oriented programming language, databases, and networking. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5378. Advanced Computer Security.**

This course covers various aspects of producing secure computer information systems that provide guaranteed controlled sharing. Emphasis is on software models and design, including discovery and prevention of computing systems security vulnerabilities. Current systems and methods are examined and critiqued. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5388. Advanced Computer Graphics.**

A study of the algorithms and data structures used in representing and processing visual data. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5389. Graphical User Interfaces.**

Covers both abstract and practical treatments of using graphics to implement interactive computer/human interfaces. Includes a survey of the major GUI standards and tools. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5391. Survey of Software Engineering.**

A study of the software life cycle with emphasis on system analysis and design. Methodologies based on data flows and on objects will be surveyed. A component on professional ethics is included. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5392. Formal Methods in Software Engineering.**

The use of design and specification languages in producing software systems. Emphasis is placed on proving correctness of designs and implementations. Prerequisites: CS 3358 and CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5393. Software Quality.**

The latter half of the software life cycle is discussed. Topics include testing, performance evaluation, and software metrics. Appropriate software tools are studied and used. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5394. Advanced Software Engineering Project.**

Students produce a software project of significant size in a team environment. All aspects of the software engineering course sequence are integrated and put into practice. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CS 5395. Independent Study in Advanced Computer Science.**

Open to graduate students on an independent basis by arrangement with the faculty member concerned. Course is not repeatable for credit.

Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5396. Advanced Software Engineering Processes and Methods.**

The essentials of software engineering processes, methods, and tools for the evolutionary design of complex interactive software are discussed.

Overviews of other topics like quality concepts, SEI CMM, information technology, and network technology are covered. Student completes a literature survey of the latest software engineering analysis and design processes, methods, and tools. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in CS 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Software Engineering

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/soen.html>.

## Degree Requirements

The master of science (M.S.) degree with a major in software engineering requires:

1. Thesis option (30-hour degree): Completion of 21 hours of graduate core courses, an additional 3 hours of graduate computer science electives, and completion of a thesis. The thesis must be accepted by a departmental supervisory committee of graduate faculty members, the department chair, and the dean of The Graduate College. The thesis program requires a minimum enrollment of 6 hours in CS 5399A and CS 5399B. Thesis credit requirement information is provided in the Thesis tab.
2. Non-thesis option (36-hour degree): Completion of 24 hours of graduate core courses and an additional 12 hours of graduate computer science electives.

### Non-thesis Option

CS 5389	Graphical User Interfaces	3
CS 5391	Survey of Software Engineering	3
CS 5392	Formal Methods in Software Engineering	3
CS 5393	Software Quality	3
CS 5394	Advanced Software Engineering Project	3
CS 5396	Advanced Software Engineering Processes and Methods	3
Select 6 hours from the following:		6
CS 5306	Advanced Operating Systems	
CS 5310	Network and Communication Systems	
CS 5329	Algorithm Design and Analysis	
CS 5332	Data Base Theory and Design	
CS 5346	Advanced Artificial Intelligence	
Advisor Approved Electives (Choose 12 hours)		12
Total Hours		36

### Thesis Option

CS 5389	Graphical User Interfaces	3
CS 5391	Survey of Software Engineering	3
CS 5392	Formal Methods in Software Engineering	3
CS 5393	Software Quality	3
CS 5396	Advanced Software Engineering Processes and Methods	3
Select 6 hours from the following:		6
CS 5306	Advanced Operating Systems	
CS 5310	Network and Communication Systems	
CS 5329	Algorithm Design and Analysis	
CS 5332	Data Base Theory and Design	
CS 5346	Advanced Artificial Intelligence	
Advisor Approved Electives (Choose 3 hours)		3
Thesis Course Work (Choose a minimum 6 hours)		6
CS 5199B	Thesis	
CS 5299B	Thesis	
CS 5399A	Thesis	
CS 5399B	Thesis	
CS 5599B	Thesis	

CS 5999B Thesis

Total Hours 30

## Background Requirements

Students are required to fulfill background course work if they do not have adequate undergraduate computer science background. The background requirements may be reduced if evidence is presented which shows that the applicant has taken equivalent courses elsewhere prior to enrollment at Texas State. Background work must be completed before enrolling in graduate courses.

The minimum undergraduate background requirements for computer science and software engineering majors are:

### Computer Science Course Work <sup>1</sup>

CS 1428	Foundations of Computer Science I	4
CS 2308	Foundations of Computer Science II	3
CS 2318	Assembly Language	3
CS 2420	Digital Logic	4
CS 3339	Computer Architecture	3
CS 3358	Data Structures and Algorithms	3
CS 4318	Compiler Construction	3
or CS 4328	Operating Systems	

Advanced computer science electives (CS 3000-4000 level) 6

### Mathematics Course Work <sup>2</sup>

MATH 5358	Applied Discrete Mathematics (or equivalent)	3
Calculus		8

Total Hours 40

<sup>1</sup> These courses must be completed with no grade less than "C" and no more than two "Cs."

<sup>2</sup> These courses must be completed with no grade less than "C."

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form

be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or

PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Computer Science: CS

## Courses Offered

### Computer Science (CS)

#### CS 5100. Advanced Computer Science Internship.

This course provides advanced training supervised by computer scientists in internship programs approved by the department. Course cannot be counted toward any graduate degree, is open only to majors in the Department of Computer Science. May be repeated once but not for credit and requires approval of the department chair

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### CS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### CS 5300. Professional Development of Graduate Assistants.

This course is designed to develop and enhance the professional and technical skills of graduate teaching and instructional assistants. Topics covered may include, but are not limited to, teaching skills, technical skills, ethical and legal issues, and laboratory management. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships



**CS 5301. Programming Practicum.**

Intensive review of programming through data structures. Includes syntax, semantics, problem solving, algorithm development, and in-class exercises. May be repeated once. Does not count for credit toward any graduate degree. Prerequisite: CS 3358 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CS 5306. Advanced Operating Systems.**

A study of modern operating systems including network, distributed, or real-time systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5310. Network and Communication Systems.**

A study of network and communication systems. Verification and/or implementation of protocols will be required. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5316. Data Mining.**

This course covers fundamental concepts and techniques plus recent developments in data mining and information retrieval. It provides relevant research training and practice opportunities. May not be taken for credit if student received credit for CS 4315. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5318. Principles of Programming Languages.**

This course focuses on the principles of programming languages. Topics covered include programming paradigms, concepts of programming languages, formal syntax and semantics, and language implementation issues. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5326. Advanced Studies in Human Factors of Computer Science.**

Professional level presentation of techniques and research findings related to human-computer interactions. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5329. Algorithm Design and Analysis.**

Introduction to algorithm design and analysis, computational complexity, NP – completeness theory. Prerequisites: CS 3358, MATH 2472, and MATH 3398 or MATH 5358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5331. Crafting Compilers.**

Overview of the internal structure of modern compilers. Research on compilation techniques. Topics include lexical scanning, parsing techniques, static type checking, code generation, dataflow analysis, storage management, and execution environments. Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5332. Data Base Theory and Design.**

Computer system organization for the management of data; data models, data model theory, optimization and normalization; integrity constraints; query languages; intelligent database systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5334. Advanced Internet Information Processing.**

Integration of popular scripting languages (Perl, JavaScript, PHP, and other CGI capable languages) and database programming languages (embedded database programming languages, JavaServlets, and PHP) to provide advanced information processing for Internet applications that demand both database support and sophisticated, application specific information processing. Prerequisite: CS 4332 or CS 5332 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5335. Research in Object-Oriented System Development.**

The course covers the object-oriented methodologies for system analysis, design, implementation, testing, and other aspects of system development. Emphasis will be on using OO methodologies to manage the complexity of complicated software. Other topics like modeling, OODB, and OO languages will also be covered. Prerequisites: CS 3358, and either CS 4332 or CS 5332 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5338. Formal Languages.**

Advanced topics in automata theory, grammars, Turing machines, decidability, and algorithmic complexity. Prerequisites: CS 3358 and MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5341. Advanced Network Programming.**

Study of advanced concepts and programming skills in computer networks such as advanced TCP/IP, API, multicasting and broadcasting, reliable communications, advanced I/O functions and options. Prerequisite: CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5343. Wireless Communications and Networks.**

Study of the fundamental aspects of wireless communications and wireless/mobile networks, introduction of wireless/mobile networking APIs. Prerequisites: CS 3358 with a grade of B or higher and CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5346. Advanced Artificial Intelligence.**

Knowledge representation; knowledge engineering; parallel and distributed AI; heuristic searches; machine learning and intelligent databases; implementation of systems in high-level AI languages. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 5348. Computer Organization and Design.**

This course covers the dynamic interaction of the computer system building blocks and their management. Course topics include the design of the instruction set, high speed arithmetic, memory hierarchy, and control units. Computer system performance evaluation methodology and techniques are also covered. Prerequisites: CS 3339 and CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5351. Parallel Processing.**

Introduction to the design and analysis of parallel algorithms, parallel architectures, and computers. Prerequisites: CS 3358, CS 3409, and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5352. Distributed Computing.**

Study of advanced topics in distributed systems: concurrency control and failure recovery, management of replicated data, distributed consensus and fault tolerance, remote procedure calls, naming and security.

Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5369D. Advanced Digital Forensics.**

This course provides a comprehensive understanding of the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices and media, and communication networks. The course covers recent research material published in the field. Hands-on experience will be acquired through case studies and projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369G. Web Service Engineering.**

Advanced concepts and techniques for enabling Web application integration and interaction using Semantic Web and Web services. Concepts and techniques include service discovery ontology (RDF, DAML-S), XML-based interactions standards (ebXML, RossettaNet) and Web Services (WSDL, SOAP, UDDI, BPEL). Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369J. Advanced Human Computer Interaction.**

This course will cover state of the art human computer interaction topics such as perceptual compression, eye-gaze, and brain computer interfaces with emphasis on the human visual system, eye-tracking, and electroencephalography. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369L. Machine Learning and Applications.**

Provides broad introduction to machine learning, including learning theory, and recent topics like support vector machines and feature selection. Covers basic ideas, intuition, and understanding behind modern machine learning methods. Discusses applications like face recognition, text recognition, biometrics, bioinformatics, and multimedia retrieval. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369M. Software Evolution and Maintenance.**

Software evolution and maintenance is one of the most important and complex activities in software engineering. Programmers rarely build software from scratch but often modify existing software to fix defects or add new features. This course studies the fundamentals of cutting-edge techniques and tools for software evolution and maintenance.

Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369Q. Recommender Systems.**

This course covers various concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences. Discussion of how recommender systems are deployed in business applications, design of new recommender experiences, and how to conduct and evaluate research in recommender systems. Cannot take for credit if already took CS 4379Q. Prerequisite: CS 3358 with a grade of C or higher or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369R. Research in Digital Forensics.**

Students will design and implement computer-based forensic tools applicable to an instructor chosen domain

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369Y. Green Computing.**

Reducing mobile device, cloud computing platform, and supercomputer energy consumption is a paramount, daunting problem. This course covers state-of-the-art green computing research, including energy-efficient hardware and software design, power-aware resource management and storage solutions, green data centers and mobile computing. Cannot be taken for credit if received CS 4379Y credit.

Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5374. Neural Networks.**

A study of neural computing, including basic concepts, algorithms, and applications; back propagation and counter propagation networks; Hopfield networks; associative memories; massively parallel neural architectures; adaptive resonance theory; optical neural networks; connectionist approaches. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5375. Multimedia Computing.**

A study of the digital representation and processing of major multimedia data types: image, audio, and video. Compression techniques for the three data types, standards, and storage media. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5376. Enterprise Application Integration.**

Introduction to the integration of all services available on the Web. It emphasizes component-based integration frameworks based on J2EE specification (EJB, Servlets, JMS), inter-organization workflow integration frameworks, and XML framework. Students must have knowledge of object-oriented design, object-oriented programming language, databases, and networking. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5378. Advanced Computer Security.**

This course covers various aspects of producing secure computer information systems that provide guaranteed controlled sharing. Emphasis is on software models and design, including discovery and prevention of computing systems security vulnerabilities. Current systems and methods are examined and critiqued. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5388. Advanced Computer Graphics.**

A study of the algorithms and data structures used in representing and processing visual data. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5389. Graphical User Interfaces.**

Covers both abstract and practical treatments of using graphics to implement interactive computer/human interfaces. Includes a survey of the major GUI standards and tools. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5391. Survey of Software Engineering.**

A study of the software life cycle with emphasis on system analysis and design. Methodologies based on data flows and on objects will be surveyed. A component on professional ethics is included. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5392. Formal Methods in Software Engineering.**

The use of design and specification languages in producing software systems. Emphasis is placed on proving correctness of designs and implementations. Prerequisites: CS 3358 and CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5393. Software Quality.**

The latter half of the software life cycle is discussed. Topics include testing, performance evaluation, and software metrics. Appropriate software tools are studied and used. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5394. Advanced Software Engineering Project.**

Students produce a software project of significant size in a team environment. All aspects of the software engineering course sequence are integrated and put into practice. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CS 5395. Independent Study in Advanced Computer Science.**

Open to graduate students on an independent basis by arrangement with the faculty member concerned. Course is not repeatable for credit.

Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5396. Advanced Software Engineering Processes and Methods.**

The essentials of software engineering processes, methods, and tools for the evolutionary design of complex interactive software are discussed.

Overviews of other topics like quality concepts, SEI CMM, information technology, and network technology are covered. Student completes a literature survey of the latest software engineering analysis and design processes, methods, and tools. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in CS 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Computer Science

### Minor Requirements

A graduate minor in computer science requires 6 (thesis student) or 9 (non-thesis student) semester hours of graduate advisor-approved elective credits.

## Minor in Forensic Systems

### Minor Requirements

A graduate minor in forensic systems requires 9 hours (for non-thesis students) and 6 hours (for thesis students) of graduate advisor-approved elective courses.

## Minor in Software Engineering

A graduate minor in software engineering requires:

### Thesis Majors

CS 5391	Survey of Software Engineering	3
CS 5392	Formal Methods in Software Engineering	3
or CS 5393	Software Quality	
Total Hours		6

### Non-thesis Majors

CS 5391	Survey of Software Engineering	3
CS 5392	Formal Methods in Software Engineering	3
CS 5393	Software Quality	3
Total Hours		9

## Ingram School of Engineering

Roy F. Mitte Building Room 5202  
T: 512.245.1826 F: 512.245.7771  
<http://www.engineering.txstate.edu/>

### Mission

1. To provide students with an exceptional education in various disciplines of engineering,
2. To establish, through dedicated faculty, a nationally recognized research program, preparing interested students to achieve excellence in graduate studies and research, and
3. To serve the State of Texas and the nation by creating highly skilled, diverse, and motivated professionals capable of technological innovation and dedicated to the improvement of society.

### Vision

The Ingram School of Engineering will be a nationally recognized institution of higher education, serving students and employers with a complete set of accredited engineering programs supported by a faculty which maintains high standards of teaching, research, and service. To accomplish this vision, we will:

- Engage undergraduate and graduate students with innovative, multidisciplinary, and nationally recognized funded research programs.
- Emphasize quality undergraduate and graduate education using a practical, interactive, and contemporary learning environment.
- Promote a student-centered culture based on collegiality, scholarship, enthusiasm, integrity, and mutual respect among diverse faculty, staff, and students.

## Financial Assistance

### Graduate Instructional and Research Assistantships

A limited number of paid graduate assistantships are available. Research assistants work with faculty on research and other special projects. Instructional assistants work with undergraduates in laboratory settings. Contact the program's graduate advisor for details and application instructions.

### Graduate College Scholarships and Fellowships

For more information about scholarships, fellowships, financial aid and application deadlines, visit The Graduate College website at <http://www.gradcollege.txstate.edu/> and click on *Financing Your Graduate Education*.

## Master of Science (M.S.)

- Major in Engineering (p. 1191)

## Master of Science (M.S.), Major in Engineering

### Major Program

The master of science (M.S.) degree with a major in engineering provides a practical, industry-driven focus via a long-term, targeted technical project or thesis related to real-world engineering applications. These projects will be conducted in partnership with local industries and may involve off-campus collaborations. The degree requires a large-scale project or thesis because the abilities to solve problems, innovate and make immediate contributions to industry are best developed by having students confront a large, open-ended problem; perform detailed research on the problem; develop various solutions; choose and implement the best solution; validate their choice; and effectively communicate the process to professional colleagues, executives, and customers.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/engr.html>.

## Degree Requirements

The program has two options:

1. A traditional thesis option focused on an academic research topic;
2. A directed technical research option focused on a practical, industry-driven project.

Both degree options require a minimum of 34 hours:

<b>Engineering Core</b>	18
Required courses (9 hours)	
Elective courses (9 hours)	
<b>General Core Courses</b>	7
1 hour of Seminar	
At least 6 hours of thesis or project course work	
<b>Multidisciplinary Elective Courses</b>	9
<b>Total Hours</b>	<b>34</b>

The degree structure is comprised of three separate concentration areas: electrical engineering, industrial engineering, and mechanical and manufacturing engineering. As part of the application process, students declare a major in one of these three concentrations.

## Engineering Core

### General Required Course

ENGR 5310	Probability, Random Variables, & Stochastic Processes for Engineers	3
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### Concentration-Specific Required Courses

Choose one of three concentrations: 6

#### Electrical Engineering

EE 5320	Advanced Computer Architecture and Arithmetic	
EE 5350	Advanced Electronic Circuit Design	

#### Industrial Engineering

IE 5320	Modeling and Analysis of Manufacturing Systems	
IE 5340	Applied Deterministic Operations Research for Engineers	

#### Mechanical and Manufacturing Engineering

MFGE 5316	Advanced Computer Aided Design and Manufacturing	
MFGE 5326	Advanced Robotics in Manufacturing Automation	

### Engineering Electives<sup>1</sup>

Select three of the following: 9

EE 5323	Digital Image Processing	
EE 5330	Embedded and Real-Time Computing	
EE 5355	Electronic Materials and Devices	
EE 5360	Thin Film Technology	
EE 5372	Advanced Networking	
EE 5374	Introduction to Wireless Communication	
EE 5377	Statistical Signal Processing	
EE 5385	Optoelectronic Devices	
EE 5398A	Antenna Theory, Design and Applications	
EE 5398B	Electronic Materials and Beyond for Sustainable Energy	
EE 5398C	Multimedia Signal Processing	
EE 5398D	Electroceramics	
ENGR 5384	Problems in Engineering	
IE 5310	Advanced Statistical Design of Experiments for Engineers	
IE 5330	Advanced Quality Control and Reliability Engineering	
IE 5343	Non-Linear Optimization Techniques for Engineers	
IE 5345	Advanced Optimization	
IE 5347	Modern Heuristic Optimization	
IE 5397	System Thinking and Analysis	
IE 5398A	Healthcare Systems Engineering	
IE 5398B	Response Surface Methodologies	
IE 5398C	Data-Intensive Analysis and Simulation for Engineers	
MFGE 5318	Additive Manufacturing	
MFGE 5320	Polymer Nanocomposites	
MFGE 5328	Advanced Control Techniques	
MFGE 5398A	Multiscale Manufacturing	

MFGE 5398B	Advanced Composite Materials	
Total Hours		18

<sup>1</sup> Specified by the graduate committee for the student's plan of study.

## General Core

### Seminar Course

ENGR 5100	Seminar in Engineering	1
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### Project OR Thesis Course Work 6

Project Option (Choose a minimum 6 hours):		
ENGR 5198B	Project	
ENGR 5298B	Project	
ENGR 5398A	Project	
ENGR 5398B	Project	
ENGR 5598B	Project	
ENGR 5998B	Project	
Thesis Option (Choose a minimum 6 hours):		
ENGR 5199B	Thesis	
ENGR 5299B	Thesis	
ENGR 5399A	Thesis	
ENGR 5399B	Thesis	
ENGR 5599B	Thesis	
ENGR 5999B	Thesis	
Total Hours		7

## Multidisciplinary Elective Courses

The multidisciplinary elective courses (9 hours) are specified by the student's graduate committee and are chosen from a set of engineering-related courses from other disciplines including business, technology, mathematics, computer science, physics, or chemistry. Click on the course name for course descriptions or navigate to the appropriate department page.

### Business Administration

CIS 5358	IT Systems Project Management	3
CIS 5364	Data Warehousing and Mining	3
CIS 5370	Enterprise Resource Planning	3
MGT 5311	Process Improvement Management in Organizations	3
MGT 5315	New Venture Management	3
MGT 5321	Supply Chain Management	3
MGT 5390	Business Research Methods	3
QMST 5335	Introduction to Forecasting and Simulation	3

### Industrial Technology

TECH 5315	Engineering Economic Analysis	3
TECH 5382	Industrial Ecology and Sustainability Engineering	3
TECH 5390	Research in Technology	3
TECH 5392	Fundamentals of Microelectronics Manufacturing	3

### Computer Science

CS 5306	Advanced Operating Systems	3
CS 5346	Advanced Artificial Intelligence	3
CS 5369L	Machine Learning and Applications	3

### Mathematics

MATH 5340	Scientific Computation	3
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MATH 5345	Regression Analysis	3
MATH 5388	Discrete Mathematics	3

MATH 5376 is a header course. Topics courses may be used to fulfill this requirement (example 5376A, 5376B)

#### Physics

PHYS 5326	Electrical Characterization of Materials and Devices	3
PHYS 5327	Semiconductor Device Physics	3

#### Material Science, Engineering, and Commercialization

MSEC 7301	Practical Skills in Commercialization and Entrepreneurship	3
MSEC 7302	Leadership Skills in Commercialization and Entrepreneurship	3
MSEC 7310	Nanoscale Systems and Devices	3
MSEC 7311	Materials Characterization	3
MSEC 7340	Biomaterials and Biosensors	3

All students will have a faculty advisor and a graduate committee composed of a minimum of three graduate faculty members (including the faculty advisor). The faculty advisor will provide technical direction for the student's project/thesis, and the graduate committee will be responsible for approving the project/thesis proposal, receiving project/thesis progress reports, and approving the final project/thesis presentation and written report. Oral thesis defense or oral project presentation will serve as the comprehensive examination.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:



1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

If a student elects to follow the project option for the degree, a committee to direct the project activity will be established. The project outcomes and deliverables will be specified by the project committee, and will include a written project report (similar in depth to a research thesis). In addition to demonstrating the student's capability for topical research and/or technical development, the project must also demonstrate the student's capability for independent thought and ability to completely resolve an unstructured technical problem. The structure and format of the project report will be specified by the project committee and may leverage portions of the Graduate College's Guide to Preparing and Submitting a Thesis or Dissertation. However, the project report will not be submitted to The Graduate College for publication and dissemination.

## Project Proposal

The student must submit an official Master's Project Proposal form to their project committee. The required project proposal form may be obtained from the program's website <http://www.engineering.txstate.edu/Programs/Graduate.html>. After signing the form and obtaining committee members' signatures and graduate advisor's signature the student must submit the project proposal form with one copy of the proposal attached to the Director of the Ingram School of Engineering for approval before proceeding with project activity. If the project activity involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to the Ingram School. If the project activity involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the project proposal form be submitted to the Director of the Ingram School by the end of the student's enrollment in ENGR 5398A.

## Project Committee

The project committee must be composed of a minimum of three approved graduate faculty members. The chair of the project committee and at least one other committee member must be Ingram School faculty. The committee may contain additional members from industry sponsors or agencies, at the request of the sponsor or the preference of the committee chair.

## Project Enrollment and Credit

The completion of a minimum of six hours of project enrollment is required. Students will enroll in ENGR 5398A for initial project activity and ENGR 5x98B for subsequent project activity. Preliminary discussions regarding the selection of a topic and assignment to a project supervisor are required prior to enrollment for ENGR 5398A.

**A student will be required to enroll in and pay the fee for at least one hour of the project course during any term in which the student will receive project supervision or guidance and/or in which the student is using university resources.** Failure to register for the appropriate project course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in ENGR 5398A, the student will continue to enroll in ENGR 5x98B until the project is

successfully completed, as specified by the project committee. In the rare case when a student has not previously enrolled in ENGR 5398A and plans to work on and complete the project in one term, the student may enroll concurrently in both 5398A and 5398B. The only grades assigned for project courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a project course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the project is completed. The minimum number of hours of project credit ("CR") will be awarded only after the project report is approved by the project committee, and has been submitted to and approved by the Ingram School of Engineering. A student who has selected the project option must be registered for the appropriate project course during the term or Summer I (during summer the project course runs ten weeks for both sessions) in which the degree will be conferred.

## Project Deadlines and Approval Process

Project deadlines are the same as the thesis deadlines posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deathlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deathlines.html). The completed project report must be submitted to the chair of the project committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of Ingram School no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Project Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the project report in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the project report in final form, approved by all committee members, submitted to the Ingram School of Engineering.

After the Director of the Ingram School approves the project report, the student may take personal copies to the Alkek Library and pay the binding fee for personal use.

Master's level courses in Engineering: ENGR (p. 1194), EE (p. 1196), IE (p. 1197), MFGE (p. 1198)

## Courses Offered

### Engineering (ENGR)

#### ENGR 5100. Seminar in Engineering.

Graduate students attend seminars by invited speakers presenting relevant topics in academia and industry. The schedule of speakers will be developed each semester with strict faculty supervision. This course may only be taken for credit one time. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5101. Academic Instruction for Engineering Graduate Assistants.**

This course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit, and is graded on a credit (CR), no-credit (F) basis. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENGR 5198B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5298B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5301. Academic Instruction for Engineering Graduate Assistants.**

This course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit, and is graded on a credit (CR), no-credit (F) basis. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENGR 5310. Probability, Random Variables, & Stochastic Processes for Engineers.**

This course develops theory underlying analysis and design of systems. Fundamental distributional concepts, applications of statistical methods, and theory of stochastic processes are introduced to create a foundation for mathematical analysis of physical systems involving randomness.

Applications to engineering topics are taught, including estimation, control, and systems theory. Prerequisite: IE 3320 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 5384. Problems in Engineering.**

Graduate students investigate a special topic by developing a technical problem, researching the topic, and presenting the findings. Plans will be developed on an individual basis with strict faculty supervision. This course may be repeated once for additional credit with permission of the School Director. Restricted to students enrolled in the MS Engineering program and with approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 5398A. Project.**

This course represents a student's initial project enrollment. No project credit is awarded until the student has completed the project in ENGR 5x98B. This course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5398B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the theses is completed in ENGR 5x99B. This course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5598B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5998B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Electrical Engineering (EE)****EE 5320. Advanced Computer Architecture and Arithmetic.**

This course teaches design and analysis of high-performance computer systems, focusing on quantitative analysis of the latest processors and compilers. Current processor architectures are surveyed for system design. Topics include instruction sets, parallelizing architectures, pipelining, I/O, memory and cache organization, parallel/vector processing, fast arithmetic units design, and implementation using HDL. Prerequisites: EE 3420 and CS 3339 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5323. Digital Image Processing.**

This course provides the necessary fundamental techniques to analyze and process digital images. It covers principles, concepts, and techniques of digital image processing and computer vision. Prerequisites: ED 3420, CS 2308, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5330. Embedded and Real-Time Computing.**

This course teaches development of embedded computing systems with strong resource constraints. Key concepts include managing constrained memory and processing speed limitations, and programming for soft and hard real-time constraints. Students will learn use of a Real-Time Operating System (RTOS). Prerequisites: EE 3420 and CS 3339, or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5350. Advanced Electronic Circuit Design.**

This course includes low and high power RF amplifier design techniques, oscillators, FM demodulators, limiters, and mixer design. Additional topics include circuit design to minimize intermodulation and other forms of distortion, and RD and high-speed analog circuits with emphasis on digital-friendly applications. Prerequisite: EE 4350 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5355. Electronic Materials and Devices.**

This course covers theoretical concepts applicable to the understanding of unique properties exhibited by electronic materials, especially by dielectrics, oxide semiconductors, ferroelectrics, pyroelectrics, piezoelectrics, magnetic, and multifunctional and multiferroic materials. The various microelectronic devices and modern novel technologies based on these materials are emphasized. Prerequisite: EE 3350, or equivalent, with a grade of B or higher, or approval of instructor.

Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5360. Thin Film Technology.**

This course covers the theoretical and practical aspects of thin film technology in modern devices. The design and fabrication of thin film heterostructures is discussed. Growth and nucleation of epitaxial thin films with diverse properties and devices with combined properties will be emphasized. Prerequisite: EE 3350 or equivalent, with a grade of B or higher, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5372. Advanced Networking.**

This course develops important theoretical and application topics related to advanced networking. Theoretical topics are introduced using mathematical treatments, including queuing theory and some random processes. The course includes applications of these topics to communications networks, and focuses on architectures, applications and technologies which affect modern computer and data networks.

Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5374. Introduction to Wireless Communication.**

This course teaches principles and practices in designing and analyzing cellular and other wireless communication systems. Topics include RF propagation modeling, fast and slow fading, modulation, demodulation, coding, and multiple access techniques. Prerequisite: EE 4370. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5377. Statistical Signal Processing.**

This course develops the theory and applications of random processes using mathematical treatments, including elementary discrete and continuous time linear systems theory, elementary probability, and transform theory. Topics include applications of random processes to information and communication theory, estimation and detection, control, signal processing, and stochastic systems theory. Prerequisite: ENGR 5310 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5385. Optoelectronic Devices.**

This course introduces the student to the concepts, physical operations, and design criteria of state-of-the-art optoelectronic devices and systems used in research, technology, medicine, communication, and other modern applications. Prerequisites: EE 3355, EE 4350, or equivalent, with a grade of C or higher; or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5398A. Antenna Theory, Design and Applications.**

This course covers the basic theory, design and applications of antennas. The topics include antenna radiation, fundamental parameters of antennas, linear wire antennas, loop antennas, antenna arrays, long-periodic antennas, horn antennas, microstrip antennas and modern nano-antennas. Restricted to students enrolled in the MS Engineering program. Prerequisite: EE 3340 or EE 3370 (or an equivalent) with a grade of "C" or higher, or Instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398B. Electronic Materials and Beyond for Sustainable Energy.**

This course covers the basic science and technology for sustainable energy from the view of materials, where electronic materials are highly emphasized. The topics include solar cells, thermoelectrics, batteries, supercapacitors, artificial photosynthesis, fuel cells, biomass and nuclear energy. Restricted to students enrolled in MS Engineering program.

Prerequisite: EE 3355 or equivalent, with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398C. Multimedia Signal Processing.**

This course covers theory and applications of digital signal processing to multimedia signals, including speech, audio, image, and video. Key concepts and algorithms are discussed first, followed by a review of relevant industry standards. Hardware architectures and real-time implementation concepts appropriate for multimedia signals are also included. Restricted to students enrolled in MS Engineering program. Prerequisites: EE 3370 (or equivalent) and EE 4377 or EE 4323 (or an equivalent), or Instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398D. Electroceramics.**

This course covers binary and ternary phase diagrams, non-centrosymmetric crystal structures and symmetry groups, nonlinear dielectrics (ferroelectricity, piezoelectricity, pyroelectricity), nonlinear magnetics, oxide wideband gap semiconductors, detectors and sensors, introduction to MEMS, radhard electronics, and spintronics technology. Labs and additional research-oriented instruction are related to materials processing, characterization, fabrication, and testing. Restricted to students enrolled in the MS Engineering program. Prerequisite: EE 3355 with a grade of B or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**Industrial Engineering (IE)****IE 5310. Advanced Statistical Design of Experiments for Engineers.**

This course examines the design and analysis of controlled experiments, demonstrating engineering applications of design of experiments (DOE) in the manufacturing and service industries. Topics include full and fractional factorial designs, response surface methodology, and Taguchi methods. In a semester-long project, students apply DOE to improve a real manufacturing process. Prerequisite: ENGR 5310 or instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5320. Modeling and Analysis of Manufacturing Systems.**

This course covers the methods for modeling and analyzing manufacturing systems. Critical manufacturing issues that are addressed by these models include sustainable production systems, material handling systems, scheduling, and supply chains. Prerequisites: IE 3320, IE 3340, and MFGE 4396; or instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5330. Advanced Quality Control and Reliability Engineering.**

This course provides in-depth knowledge in reliability modeling and maintenance optimization for components and systems. The course also covers advanced quality control techniques including multivariate process control. Methodologies are applied to solve practical problems arising from various industry domains. Prerequisite: ENGR 5310 or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**IE 5340. Applied Deterministic Operations Research for Engineers.**

This course introduces students to modeling of linear, non-linear, and integer problems applied to engineering design, manufacturing, service, supply chain, healthcare and electrical systems. Mathematical programming software is emphasized in class exercises, homework, and project. Techniques including revised simplex method, duality theory, sensitivity analysis, and networks are also covered. Prerequisites: CS 1428 and MATH 3377 or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5343. Non-Linear Optimization Techniques for Engineers.**

This course covers engineering applications of mathematical modeling and computational methods for nonlinear programming problems. The primary goal of this course is to present techniques and strategies essential to optimize non-linear models. Prerequisite: IE 3340 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5345. Advanced Optimization.**

This course covers advanced concepts in linear and integer programming. Solution techniques for stochastic and dynamic programming and formulation and solution of decision models in manufacturing, service, supply chain, healthcare and electrical systems are presented. Prerequisite: IE 5340. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5347. Modern Heuristic Optimization.**

This course covers heuristic methods that search beyond local optima such as simulated annealing, tabu search, genetic algorithms, ant-colony systems and particle swarm. Papers from the literature, problem-specific heuristics, evaluation methods, and implementations are discussed. Prerequisite: IE 3340 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5397. System Thinking and Analysis.**

This course is an introduction to systems engineering and the systems thinking process, providing important considerations related to the engineering of large scale systems. These considerations include system understanding, modeling and design, the system development process, needs analysis, concept exploration and definition, design, integration and evaluation, and systems engineering management. Prerequisite: ENGR 5310 or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5398A. Healthcare Systems Engineering.**

This course provides an introduction into healthcare delivery with particular attention to the application of systems engineering techniques. Topics include the organization of healthcare systems, characteristics of US healthcare, decision-making in the healthcare environment, health informatics, and performance measurement tools. Student project involves integration and application of systems engineering methodologies. Restricted to students enrolled in the MS Engineering program. Prerequisite: IE 5340 or instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 5398B. Response Surface Methodologies.**

This course continues the examination of the design and analysis of controlled experiments, demonstrating how design of experiments (DOE) and response surface methodologies (RSM) are used in product optimization and process improvement. Topics include factorial and fractional factorial designs, steepest ascent, fitting response surfaces, variance-optimal design, and mixture experiments. Restricted to students enrolled in MS Engineering, MS Computer Science, MS Mathematics, MS Physics or MS Technology Management. Prerequisite: IE 5310 or Instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 5398C. Data-Intensive Analysis and Simulation for Engineers.**

This course covers foundational topics in data science, including data-intensive analysis and simulation. Specific topics include data science, data extracting and preprocessing, data visualization, and design of simulation experiments. Prerequisite: IE 5310 or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**Mechanical and Manufacturing Engineering (MFGE)****MFGE 5316. Advanced Computer Aided Design and Manufacturing.**

Topics include design process, mathematical presentation of wireframe/surface/solid models, transformation and manipulation of objects, finite element analysis, data exchange, process planning, fundamentals of multi-axis NC programming for turning and milling processes, fundamentals of CAD/CAM systems, CNC code generation by CAD.CAM software for the CNC, and waterjet machines. Registration required instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 5318. Additive Manufacturing.**

The course covers theory, techniques, and applications of Advanced Reverse Engineering & Freedom Fabrication. Topics include reverse engineering generic process, reverse modeling, contact and noncontact scanning, point cloud, geometric modeling, data extraction, rapid prototyping processes, uniform and adaptive slicing, industrial and medical applications, hardware, and software. Registration requires instructor's approval. Restricted to students enrolled in MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter



**MFGE 5320. Polymer Nanocomposites.**

This course covers polymer nanocomposites focusing on materials, manufacturing, characterization, and applications. The primary focus is on fiber reinforced polymer nanocomposites. Morphological, Thermal, Mechanical, and Electrical Characterization will be discussed in detail. Applications include fire-resistant, ablative, fatigue-resistant, impact-resistant, and bio-based composites. Registration requires instructor's approval. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 5326. Advanced Robotics in Manufacturing Automation.**

This course covers principles and techniques involved in advanced robotics. Topics include introduction to robotics, industrial robotics, robot kinematics, path planning, robot dynamics, advanced control, force control, sensors and actuators, mobile robotics, and introduction to nanorobotics. Registration requires instructor's approval. Restricted to student's enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 5328. Advanced Control Techniques.**

This course covers advanced control techniques in manufacturing processes. Topics include modeling of dynamic systems, feedback control systems analysis, stability analysis, PID control, optimal control, programmable logic control, design of control systems, transducer and sensor technology, and digital control. Registration requires instructor's approval. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 5398A. Multiscale Manufacturing.**

This course covers multiscale manufacturing processes, techniques, and applications. Topics include micro and nano-manufacturing, polymer and semiconductor fabrication, thin film technologies, bulk and surface micromachining, physics of multiscale manufacturing, microelectromechanical (MEMS) devices, and design issues for fabrication of micro and nano-systems. Restricted to students enrolled in MS Engineering, MS Computer Science, MS Mathematics, MS Physics, or MS Technology Management. Instructor's approval required  
**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MFGE 5398B. Advanced Composite Materials.**

This course examines various aspects of fiber-reinforced polymeric composites. The topics covered include constituent materials (fibers and matrices), mechanics, performance, manufacturing, and introduction to nanocomposites. This course also provides introductory treatments concerning ceramic matrix composites, metal matrix composites, and carbon/carbon composites. Restricted to students enrolled in MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Department of Engineering Technology

Roy F. Mitte Building Room 2240  
 T: 512.245.2137 F: 512.245.3052

<http://www.txstate.edu/technology>

Our curricula reflect adherence to established national accreditation standards that are appropriate to each of the technology disciplines offered within our program. We conduct on-going learning outcomes assessment for all of our programs and reporting of these results is updated annually. Input provided by several industrial advisory committees contributes toward continuous improvement and the currency of our curricula and courses.

Our faculty maintain currency in their respective fields of expertise through continual engagement in applied research and scholarship, and through professional development activities. Over just the past three years department faculty have succeeded in securing upwards of \$500,000 in external funding from federal and state agencies and from educational foundations. Our faculty have also been very active in publishing the results of their research in scholarly journals. The department is fortunate to be the professional home of such dedicated faculty members who take their commitment to higher education so seriously.

As an applied discipline, Engineering Technology is committed to experiential learning and exploration. The Roy F. Mitte building, which is home to the department, houses 19 well equipped, technical laboratories where students put into practice the principles learned in their classes. Learning by doing is fundamental to who we are, and students can expect to spend a significant portion of their time in a laboratory setting.

The mission of the Department of Engineering Technology is to prepare professionals for innovation and leadership careers in the global industrial marketplace, for the purpose of positively contributing to the well-being of the economy of the State of Texas.

## Financial Assistance

### Graduate Instructional and Research Assistantships

A limited number of paid graduate assistantships are available. Research assistants work with faculty on research and other special projects. Instructional assistants work with undergraduates in laboratory settings. Contact the program's graduate advisor for details and application instructions.

### Graduate College Scholarships and Fellowships

For more information about scholarships, fellowships, financial aid and application deadlines, visit The Graduate College website at <http://www.gradcollege.txstate.edu> and click on *Financing Your Graduate Education*.

## Master of Science (M.S.)

- Major in Technology Management (p. 1199)

## Minor

- Industrial Technology (p. 1204)

## Master of Science (M.S.), Major in Technology Management

### Major Program

The technology management graduate program at Texas State is designed for those who seek careers or career advancement in the management of engineering and production activity in the construction

and concrete industries, in the semiconductor, cast metals, machining, fabrication, and other manufacturing industries, or in the fields of power generation, environmental management, and occupational health and safety.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/tmgt.html>.

## Degree Requirements

The master of science (M.S.) in technology management is a 36-hour degree program. It is comprised of a 30-hour major in technology management plus a 6-hour cognate minor in business management. The major includes 15 hours of core technology courses that are common to all students, regardless of specialization. Students may elect one of three 9-hour specializations in construction management, manufacturing management, or general industrial management. The 6-hour cognate minor allows students to select from such industry-focused business courses as supply chain management, process improvement management, managing business creativity, organizational change management, etc.

All students are required to complete a 6-hour research component. Students may select either a traditional academic thesis or an industry-focused directed project. A thesis is the more appropriate option for full-time students who may have ambitions of further graduate study, while the directed project is the best choice for part-time students who hold jobs in industry.

## Course Work Requirements

### Core Technology Management

TECH 5390	Research in Technology	3
TECH 5394	Design of Industrial Experiments	3
TECH 5315	Engineering Economic Analysis	3
TECH 5365	Industrial Project Management and Scheduling	3
TECH 5382	Industrial Ecology and Sustainability Engineering	3

### Specializations

Select 9 hours from one of the following specializations: 9

#### Construction Management

CSM 5313	Building Information Modeling	
CSM 5360	Construction Company Financial Control	
CSM 5362	Construction Contract Delivery Systems	
CIM 5330	Advanced Concrete Technology	
CIM 5340	Innovation Strategies for the Concrete Industry	
TECH 5384	Problems in Technology	

#### Manufacturing Management<sup>1</sup>

TECH 5310	Product Design and Development	
TECH 5311	Computer Aided Engineering	
TECH 5364	Robust Product and Process Design	
TECH 5387	Advanced Facilities Planning	
TECH 5391	Advanced Manufacturing Systems	
TECH 5392	Fundamentals of Microelectronics Manufacturing	
TECH 5384	Problems in Technology	

#### Industrial Management<sup>1</sup>

TECH 5364	Robust Product and Process Design	
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TECH 5385	Readings in Technology	
TECH 5387	Advanced Facilities Planning	
TECH 5384	Problems in Technology	
<b>Research Component</b>		
Select one of the following:		6
TECH 5399A	Thesis & TECH 5399B and Thesis <sup>2</sup>	
TECH 5398	Directed Project (Repeatable for credit)	
<b>Cognate Minor in Business Management</b>		
Select 6 hours from the following: <sup>3</sup>		6
MGT 5310	Organizational Change Management	
MGT 5311	Process Improvement Management in Organizations	
MGT 5315	New Venture Management	
MGT 5321	Supply Chain Management	
MGT 5325	Managing Business Creativity	
MGT 5391	Managing the Communication Process	
Total Hours		36

<sup>1</sup> Upon advice of the graduate advisor, students specializing in either manufacturing management or industrial management may also elect courses offered through the Ingram School of Engineering, and/or other departments in the College of Science and Engineering.

<sup>2</sup> Additional thesis courses are also available: TECH 5199B, TECH 5299B, TECH 5599B, and TECH 5999B. Students should refer to the Thesis tab for more information.

<sup>3</sup> Other courses in the McCoy College of Business may also be elected upon advice of the graduate advisor acting in consultation with the graduate advisor for the McCoy College of Business Administration.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members,

uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Engineering Technology: CIM (p. 1201), CSM (p. 1201), TECH (p. 1202)

## Courses Offered

### Concrete Industry Management (CIM)

#### **CIM 5330. Advanced Concrete Technology.**

The course will cover hydraulic cements, aggregates, admixtures, and mix design; concrete production, quality control, early-age properties and durability. Concrete distress examination, identification, prevention, and nondestructive testing; advanced concrete technology, high-strength and high performance concrete. Prerequisite: CIM 2342

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CIM 5340. Innovation Strategies for the Concrete Industry.**

This course provides students a new set of tools for and experience in finding and developing innovative alternatives for addressing strategic business problems in concrete industry. Students will explore creativity from individual and team perspectives and identify innovation opportunities and roadblocks in organizational settings. Prerequisite: CIM 3340 and CIM 3366 or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### Construction Science and Management (CSM)

#### **CSM 5302. Fundamentals of Construction Contracts and Liability Issues.**

This course introduces students to the legal aspects of design and construction contract documents, including dispute resolution methods and professional ethics commonly used in the construction industry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### **CSM 5304. Fundamentals of Construction Estimating.**

This course provides the student with a comprehensive introduction to the principles, techniques, technologies, and basic concepts involving methodologies and strategies used in the preparation of various types of construction estimates and bids. This course does not count as degree credit

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5306. Fundamentals of Commercial Building Construction Systems.**

This course is a commercial building construction systems class dealing with soils, site work, heavy foundations, steel, reinforced concrete, pre-cast structures and common assemblies. Commercial MEPs are studied along with CSI master format, as-built/shop drawings, schedule of values, AIA documents, and appropriate building codes. Does not count as degree credit

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Leveling

**Grade Mode:** Leveling/Assistantships

**CSM 5313. Building Information Modeling.**

This course covers understanding the supervisory role of construction professionals in the design process including, directing a design team in the integration of construction documents for commercial buildings, coordination of site work, structural, architectural, mechanical, electrical, plumbing plans and contemporary CAD software for 2D& 3D design including Building Information Modeling. Prerequisite: CSM 2313 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5360. Construction Company Financial Control.**

Financial accounting and cost controls used at the company level in construction companies are studied. Topics include accounting systems, construction project profit calculations, and financial analysis. Prerequisites: CSM 5302, CSM 5304, and CSM 5306 or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5362. Construction Contract Delivery Systems.**

The course will introduce students to designer/contractor interactions, including conceptual estimating and scheduling, the RFQ/RFP process and legal, insurance, risk allocation issues, along with procurement and selection. Prerequisites: CSM 5302, CSM 5304, and CSM 5306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**Technology (TECH)****TECH 5100. Academic Instruction for Technology.**

The course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**TECH 5195. Industrial Internship.**

This course is a supervised experiential learning course in Technology Management. This work integrated learning course helps the student link theory with practice. Repeatable for credit. Prerequisites: 9 hours completed toward the Master of Science in Technology Management degree and the approval of the graduate advisor

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5305. Fundamentals of Quality Assurance.**

Principles of quality management including probability theory and basic statistics, control charts for attributes and variables, sampling plans, quality audits, and costs. Experiences in basic metrology and data collection for quality control. This course does not count as credit toward a degree

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5307. Fundamentals of Manufacturing Processes.**

Application of metal cutting principles. Includes steel rule dye layout, machine layout, tool life, tool wear, tool geometry and reconditioning, principles of feed rate and speed, material removal rates and power consumption. Machining of steel and castings using various cutting tools. Does not count toward degree credit. Prerequisite TECH 2330

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Credit/No Credit

**TECH 5310. Product Design and Development.**

This course provides an overview of the new product realization process. The focus is on the steps of systematic product design including problem identification, product planning, conceptual design, and embodiment design. Standard CAD tools are employed for product modeling. Prerequisite: TECH 2310 or instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5311. Computer Aided Engineering.**

Application of computer hardware and software to the design of products and systems; geometric modeling; engineering computational methods; overview of engineering analysis software which may include finite element analysis, manufacturing simulation, solidification modeling, and rapid prototyping. Prerequisites: TECH 5310 and MATH 2471, or equivalents

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 5315. Engineering Economic Analysis.**

This course deals with economic analytical techniques used in engineering decision making. Topics include time value of money, comparing alternatives, depreciation, replacement, and income tax considerations. Prerequisite: MATH 1315 or MATH 1319 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TECH 5364. Robust Product and Process Design.**

Provides the student with in-depth knowledge of inferential statistics as applied to design of robust processes and products. Topics covered include probability distributions, ANOVA, fractional factorial design, response surface method, orthogonal arrays, and Taguchi method. Prior experience with introductory-level statistics is assumed. Prerequisite: TECH 5394 with a grade C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5365. Industrial Project Management and Scheduling.**

Introduce students to industrial management system concepts and applications as they relate to management operations; system design, implementation and management; case studies of practices; and application of theory to practical problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5382. Industrial Ecology and Sustainability Engineering.**

This course covers the basic principles of life cycle analysis (LCA) of engineered products and processes. Topics covered include: industrial ecology, resource depletion, product design, process design, material selection, energy efficiency, product delivery, use, and end of life considerations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5384. Problems in Technology.**

Graduate students investigate a special topic by developing a technical problem, researching the topic, and presenting the findings. Plans will be developed on an individual basis with strict faculty supervision. May be repeated for additional credit with permission of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5385. Readings in Technology.**

A study of the ethical and moral viewpoints typically associated with American society as related to the development and introduction of new technology and engineering. Past, present, and future issues will be studied with selected readings focusing on industrial related problems and issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5387. Advanced Facilities Planning.**

An in-depth study of technical problems encountered in designing, equipping, arranging, and specifying facility requirements for industrial and technical training facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5390. Research in Technology.**

Examination of scientific methods including theory formulation, deductive reasoning, hypothesis generation, observation, inductive reasoning, and theory revision. Categories of research are compared and contrasted as regards methodology. In-depth study of experimental research as it relates to significant industrial problems including considerations of design, internal and external validity, and appropriate analytical technique. Introduction to data analysis and its proper interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5391. Advanced Manufacturing Systems.**

This course introduces students to various advanced tools, technologies, and strategies in modern manufacturing. An emphasis is placed on the state-of-the-art in factory automation and global manufacturing enterprises. Topics include process automation and control, advanced manufacturing processes, intelligent manufacturing control, and information technology in manufacturing. Prerequisites: TECH 1363 and TECH 5307 or instructor's approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5392. Fundamentals of Microelectronics Manufacturing.**

An introduction to integrated circuit fabrication to include crystal growth, wafer preparation, epitaxial growth, oxidation, diffusion, ionimplantation, thin film deposition, lithography, etching, device and circuit formation, packaging and testing. Significant project includes circuit design/simulation and/or process design. Laboratory component involves actual production/testing of a functional semiconductor device. I

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5394. Design of Industrial Experiments.**

This course deals with the study of the fundamentals and applications of industrial experiments. Prerequisite: TECH 5390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5398. Directed Project.**

This course is a formal investigation into a business or industry problem. The directed project is an applied research project that is more extensive than an independent study and less extensive than a thesis. The course culminates in a detailed project report and oral presentation.

Prerequisites: TECH 5390 and TECH 5394 and the approval of the graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Technology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**TECH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor of Industrial Technology

The minor in industrial technology requires 15 hours of graduate advisor-approved elective course work in industrial technology.

## Department of Mathematics

Math/Computer Science Building Room 470

T: 512.245.2551 F: 512.245.3425

<http://www.math.txstate.edu/>

The Department of Mathematics provides an environment at the forefront of research that produces graduates highly qualified in mathematics and mathematics education who will contribute to making Texas a leader in mathematics, science and technology. Offering a rich mathematical experience where students learn to think critically, communicate mathematical concepts effectively, and become lifetime learners, we maintain a nationally known community of faculty and students in the study of mathematics, mathematics education, discrete mathematics, and related disciplines.

### Goals

The program courses are designed to develop studies appropriate to preparing students for doctoral research, community college teaching, public school teaching, or careers in applied mathematics.

### Faculty

The faculty has specialists in algebra, analysis, applied mathematics, bifurcation theory, differential equations, differential geometry, non-linear functional analysis, number theory, graph theory, combinatorics, mathematics education, quadratic forms, and topology. The library collection is extensive in both journals and reference works with current journals available.

### Financial Assistance

Mathematics graduate students are encouraged to work as assistant instructors. The stipends for these assistantships are comparable to national norms and generally require teaching two courses per term. Information may be obtained by writing the department chair. The Graduate College can provide information on the availability of graduate scholarships.

### Doctor of Philosophy (Ph.D.)

- Major in Mathematics Education (p. 1204)

### Master of Education (M.Ed.)

- Major in Mathematics (p. 1221)
- Major in Middle School Mathematics Teaching (p. 1230)

### Master of Science (M.S.)

- Major in Applied Mathematics (p. 1216)

- Major in Mathematics (p. 1225)

### Minor

- Mathematics (p. 1234)

## Doctor of Philosophy (Ph.D.), Major in Mathematics Education

### Ph.D. Programs

Offered through the Department of Mathematics at Texas State, this program has a particular strength in the number of courses required in mathematics to complement courses in the teaching and learning of mathematics: Doctoral graduates will have completed a substantial mathematics core in addition to the mathematics education core, thus opening a wide variety of employment opportunities.

This program is designed for people whose career goals will take them into professional leadership roles involving mathematics education within the United States or internationally. Graduates of the program will be prepared for positions as mathematicians or mathematics-education faculty in colleges and universities; as decision makers in state or local education agencies; as researchers in think tanks, corporations, or not-for-profit organizations; as high-ranking staff in foundations or international organizations; or decision-makers within a national ministry of education.

Students beginning the program are expected to have an undergraduate degree in mathematics, mathematics education, or a related field. Students, especially those with a degree in a related field other than mathematics or mathematics education, may need to take background leveling courses. This would be decided on a case by case basis by the appropriate advisor and would be articulated at the time of admission.

### Educational Goal

The educational objectives of the program in mathematics education are:

- To develop a well-balanced foundation in mathematics content including in-depth understanding of basic principles.
- To understand the mathematics needed for our rapidly changing technological society.
- To link mathematics content to pedagogy for effective teaching that addresses educational needs through the entire P-20 continuum.
- To understand how to design best and most effective curriculum and ways to deliver this curriculum.
- To contribute to the knowledge in mathematics education by original research.
- To produce Ph.D. graduates who can become the leaders in the state and the nation's educational community concerning the teaching of mathematics appropriate for the demands of the 21<sup>st</sup> century.
- To produce high-quality teachers of mathematics at all levels.

### Teaching Experience

Each student in the mathematics education program is expected to have two years teaching experience. A student who has taught for two or more years at full-time status in the public school system will be considered to have met this requirement. A student who has not met this requirement upon admission will be required to gain practical teaching experience before graduation. If a student receives a teaching assistantship while in the program, each long term during which the student has a two-

course assignment will count as one half of a year of experience. A student who teaches two summer sessions will be given credit for one long semester. In the event that a student has other forms of practical teaching experience, the mathematics education advisor will determine the amount of credit received on an individual basis.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mathed.html>.

## Financial Assistance

Almost all doctoral students are expected to receive full financial assistance from the department working as instructional assistants or research assistants. You must be accepted as a Ph.D. student in order to apply. In addition, you must submit to the department:

- a completed employment application form which can be downloaded from the departmental web site;
- at least one letter of recommendation on your ability to teach, which could be one of the three letters you sent for your admission;
- a current vita.

Please visit the departmental website for more detailed information. The financial aid application deadline is the same as that for graduate admission. Note that only a very limited number of positions are available for spring semesters. Stipends for research assistantships depend on the types of research grants. Additional summer support is available as instructional assistants or research assistants. Contact the department for more information.

In addition to the financial aid from the Department of Mathematics, The Graduate College offers a wide variety of graduate assistantships and scholarships, including *Texas State Celebrity Classic Scholarships*, *Texas State Graduate Scholars Program*, and *College Graduate Scholarships*. For more details and how to apply, visit the Department of Mathematics website <http://www.math.txstate.edu/> or The Graduate College website <http://www.gradcollege.txstate.edu/>. Please note that the deadlines for these and other scholarships may be different from those for instructional assistants of mathematics.

## Course Work

### Semester Hour Requirements

The student must complete 60 semester hours of graduate work to meet the minimum requirements for advancement to candidacy and then a minimum of 18 hours of dissertation courses to complete the degree for a minimum of 78 hours. In some cases, a student may need to complete additional hours before being allowed to advance to candidacy. The student must have satisfied the residency requirement of 18 graduate credit hours.

### Degree Audit

Each Ph.D. student is issued a preliminary degree audit by The Graduate College which should be used to plan the student's course of study. In the first term of enrollment, students should review the degree audit in consultation with their supervising professor and the program director. Doctoral degree audits are tailored with the individual student in mind. It is therefore possible for the individual degree audit to exceed the number of degree hours identified in the catalog.

## Course Work Requirements

Each student is required to pass 36 hours of core courses, a minimum of 24 hours of elective courses, and a minimum of 18 hours of dissertation, yielding a minimum of 78 hours in course work. No grade earned below a "B" on any graduate course may apply toward a Ph.D. at Texas State. However, a student's doctoral program requirements may be modified as a result of a change to their research goals or performance in the qualifying exams.

### Core Courses

MATH 7302	History of Mathematics	3
MATH 7303	Analysis I	3
MATH 7306	Current Research in Math Education	3
MATH 7307	Algebra I	3
MATH 7309	Topology I	3
MATH 7324	Curriculum Design & Analysis	3
MATH 7325	Statistics I	3
MATH 7328	Instructional Techniques & Assessments	3
MATH 7346	Quantitative Research Analysis in Mathematics Education	3
ED 7352	Beginning Qualitative Design and Analysis	3
Select two of the following:		6

MATH 7321	Graph Theory	
MATH 7331	Combinatorics	
MATH 7356A	Advanced Quantitative Research	
MATH 7356B	Advanced Qualitative Research	

### Elective Courses

Select at least eight courses from the following: <sup>1</sup>		24
MATH 7188	Seminar in Mathematics Education	
MATH 7313	Analysis II	
MATH 7317	Algebra II	
MATH 7319	Topology II: Algebraic Topology	
MATH 7321	Graph Theory	
MATH 7331	Combinatorics	
MATH 7335	Statistics II: Linear Modeling	
MATH 7366A	Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors)	
MATH 7366B	Teaching K-12 Students (Elementary, Middle School, and High School)	
MATH 7366C	Teaching Teachers (In-Service; Pre-Service)	
MATH 7366D	Teaching Specialized Content	
MATH 7371A	Advanced Graph Theory	
MATH 7371B	Advanced Combinatorics	
MATH 7371C	Combinatorial Number Theory	
MATH 7371D	Discrete Optimization	
MATH 7371E	Algorithms and Complexity	
MATH 7371F	Probabilistic Methods in Discrete Mathematics	
MATH 7371G	Applied Discrete Mathematics	
MATH 7378A	Problem Solving, Reasoning, and Proof	
MATH 7378B	Connecting and Communicating Math	
MATH 7378C	Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration)	
MATH 7378D	Math Technologies	

MATH 7386	Independent Study in Mathematics Education	
MATH 7389	Internship	
<b>Dissertation</b>		
Select a minimum of 18 hours from the following:		18
MATH 7199A	Dissertation	
MATH 7299A	Dissertation	
MATH 7399A	Dissertation	
MATH 7599A	Dissertation	
MATH 7699A	Dissertation	
MATH 7999A	Dissertation	
Total Hours		78

<sup>1</sup> A student may elect, with approval of the student's dissertation advisor, three hours from other departments in addition to the courses listed here. Note that topics-courses may be repeated provided the topics differ. Students' choice of courses must be approved by the graduate advisor.

## Qualifying Examination

Typically, after completion of the core courses or by the end of the second year in residence, each student will be required to take written qualifying examinations. To be eligible to take the qualifying examinations, the student normally will have a minimum grade point average of 3.5 on all the core courses including the transferred equivalent courses that the student has completed. A student will choose two of the following topics to be on his or her qualifying examinations: algebra, analysis, topology, statistics, and discrete mathematics. Mathematics education will be the third topic.

Following the successful completion of all qualifying exams, a student may register for a maximum of three of the required eighteen dissertation credits until successful defense of the dissertation proposal.

## Comprehensive Examination

A comprehensive oral examination of the student's dissertation proposal will take place as part of the proposal defense.

## Advancement to Candidacy

### Application for Advancement to Candidacy

The dean of The Graduate College approves advancement to candidacy once all requirements are met. Doctoral students must be advanced to candidacy within five years of initiating Ph.D. course work applied toward the degree. Students need to indicate their intent to advance to candidacy during the term they complete the 60 hours of required course work and other departmental requirements. The student will need to download the Advancement to Candidacy form from The Graduate College website. The student will need to complete the form and return it to the doctoral program director. The doctoral program director will then submit the completed form to the dean of The Graduate College for review.

The doctoral candidacy requirements include:

1. Completion of all required course work with the exception of dissertation credit hours.
2. Successful passage of all three qualifying exams.
3. Successful passage of the comprehensive exam.
4. Approval of the dissertation proposal.

5. At least a 3.5 GPA on all doctoral required courses.

## Advancement to Candidacy Time Limit

No credit will be applied toward the doctoral degree for course work completed more than five years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions.

Requests for a time extension must be submitted to the doctoral program director, who in turn, submits a recommendation to the dean of The Graduate College.

## Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.5. No grade earned below a "B" on any graduate course may apply toward a Ph.D. at Texas State.

Incomplete grades must be cleared through the office of The Graduate College before a student can be approved for advancement to candidacy.

## Dissertation Proposal

In order to be advanced to candidacy, a student must select a doctoral dissertation advisor and committee, submit a dissertation proposal, and successfully defend the proposal in an oral examination with the dissertation committee. The examination will address the problem definition and scope, the relevant literature, and the research method of the proposed dissertation topic. Information about the formation of the dissertation committee can be found in the "Dissertation Research and Writing" section of this catalog.

## Recommendation for Advancement to Candidacy

The doctoral program committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair, and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy, the student must have successfully completed the qualifying and/or comprehensive exam(s), completed all course work, and successfully defended the dissertation proposal.

## Dissertation Research and Writing

All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of Kate L. Turabian's *A Manual for Writers*.

## Dissertation Enrollment Requirements

### Enrollment

After being admitted to candidacy, students must be continuously enrolled each term for at least three dissertation hours. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred.

## Hours

Students must complete a minimum of 18 semester hours of dissertation research and writing credit.

## Dissertation Time Limit

Students are expected to complete the dissertation within three years of advancement to candidacy. The mathematics education program director will review the students' annual progress to ascertain his or her progress in pursuing the degree. The program director will consult with the student's Ph.D. advisor and dissertation committee on this matter as appropriate.

## Dissertation Committee

A dissertation committee must be formed to oversee the research and writing of the dissertation. The dissertation committee will include a dissertation advisor and a minimum of three additional members (one of whom must be an external member).

The members must be chosen from qualified Ph.D. faculty. The dissertation advisor and the committee members must be selected in consultation with the student. The dissertation advisor will chair the dissertation committee and must be from the major department. The dissertation advisor and committee members must be approved by the doctoral program director, the department chair, and the dean of The Graduate College.

The student is responsible for obtaining committee members' signatures on the proper forms and submitting the forms to the department for further routing approval. The forms may be downloaded from The Graduate College website.

## Committee Changes

Any changes to the dissertation committee must be submitted for approval to the dissertation committee chair, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty days before the dissertation defense. The "Ph.D. Research Advisor/Committee Member Change Request form" may be downloaded from The Graduate College website.

## Dissertation Defense

The dissertation defense may not be scheduled until all other academic and program requirements have been fulfilled. A complete draft of the dissertation must be given to the members of the dissertation committee at least 65 days before the date of commencement during the term in which the student intends to graduate. After committee members have reviewed the draft with the student and provided comments, the student, in consultation with the research advisor, will incorporate the recommended changes into a second draft of the dissertation. When each committee member is satisfied that the draft dissertation is defensible, dissertation defense will be scheduled.

The dissertation defense will consist of two parts. The first part is an oral presentation of the dissertation research given as a public seminar. The second part of the defense will immediately follow the public presentation, but is restricted to the student's dissertation committee, and will entail an oral examination over the dissertation research. The full committee, including all external members, must be present. Approval of the dissertation requires positive votes from the student's Ph.D. advisor and a majority of the remaining members of the dissertation committee.

Specific information on the examination and defense procedure can be obtained from the doctoral program director.

## Approval and Submission of the Dissertation

Following approval and signing of the dissertation by the members of the dissertation committee, the student must submit one copy of the dissertation and one signed "Thesis/Dissertation Committee Approval form" to The Graduate College for final approval. Specific guidelines for approval and submission of the dissertation can be obtained from the office of The Graduate College. Dissertations must be submitted in electronic format.

## Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

Doctoral level courses in Mathematics Education: ED (p. 1207), MATH (p. 1212)

## Courses Offered Education (ED)

### ED 7111. Collaborative Inquiry Project, Phase I: Field-Based Assessment.

This course involves the selection of a problem for study in the field. Students will gather and analyze needs assessment data and design an action plan for field-based research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted  
**Grade Mode:** Standard Letter

### ED 7112. Collaborative Inquiry Project, Phase II: Field-Based Implementation.

This course requires students to implement an action plan to solve a problem in the field that has been selected in ED 7111. Prerequisite: ED 7111 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted  
**Grade Mode:** Standard Letter

### ED 7113. Collaborative Inquiry Project, Phase III: Field-Based Evaluation.

This course involves the collection and analysis of data as part of a field-based action research project. Students will gather, analyze, and interpret a variety of data and prepare a written report on a field-based research project. Prerequisites: ED 7111, ED 7112 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted  
**Grade Mode:** Standard Letter

### ED 7199A. Dissertation.

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**ED 7199B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**ED 7299A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**ED 7299B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**ED 7310. Instructional Roles in Counseling, Leadership, Adult Education & School Psychology.**

This seminar is intended to prepare graduate teaching and instructional assistants in the CLAS Department to function effectively in various instructional and instructional support roles. Required for first-year teaching assistants and GIAs. This course does not earn graduate degree credit. Repeatable with different emphasis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**ED 7311. Educational Philosophy in a Social Context.**

This course examines the philosophical foundations of education from the time of Plato through current writings. It frames these foundations through the lens of educational challenges of today. Readings include classical and current writings  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7312. Leadership and Organizational Change.**

This course will familiarize students with different perspectives on organizations, different paradigms by which they might be viewed, and a survey of research done on organizations, organizational leadership and change  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7313. Advanced Studies in Adult Learning and Development.**

This advanced seminar will examine research and theoretical literature on a variety of topics including: characteristics of adult learners; models of adult cognitive and psychosocial development; adult cognition, memory, and intelligence; and principles for facilitating adult learning. Restricted to Ph.D. in Education degree, Major in School Improvement  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7314. Community Development for Educators.**

Examines models and methods of community development as relevant to the practice and scholarship of formal and non-formal education  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7315. Models of Inquiry: Understanding Epistemologies.**

This course examines the philosophies informing different research epistemologies, and examples of how these can be actualized methodologically. Philosophies to be analyzed include feminism, and race-based theory. This course will help students see the multiple possibilities for conducting research  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7316. Advanced Studies in Adult Development.**

This course examines current theories of adult development, fundamental developmental changes in adulthood, and the implications for practice in adult education. Restricted to students admitted to the Education Ph.D. Program- APCE major or with permission of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7318. Advanced Studies in Adult Learning.**

This advanced seminar will examine research and theoretical literature on a variety of topics related to adult learning such as: characteristics and diversity of adult learners; key theories of adult learning; alternative perspectives on adult learning; intelligence, aging and wisdom; and learning in the digital age. Restricted to students admitted to the Education Ph.D. Program – APCE major or with permission of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7320. Literature Review for Research Writing.**

In this seminar course, students conduct a careful examination of a body of literature related to a research topic in adult/professional/community/lifelong education. The literature review tests research questions in relation to what is published about a topic, discusses various positions, crafts coherent arguments and addresses knowledge gaps. Prerequisites: ED 7352 or ED 7351. Restriction: Doctoral standing  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7321. Historical and Philosophical Foundations and Contemporary Issues in Adult Education.**

Examines historical and philosophical foundations for the study and practice of adult professional, and community education in formal and non-formal settings; and contemporary issues in adult education in a "learning society." Prerequisites: Core courses or instructor's permission  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ED 7322. Human Resource and Professional Development.**

Examines the methods, practices, and issues of facilitating learning related to occupational, professional, and volunteer roles. Prerequisites: Core courses or instructor's permission  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**ED 7323. Community/Organizational Leadership and Management.**

Examines issues and strategies related to the operation and delivery of educational programs in post-secondary, adult, and community settings.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7324. Problems and Strategies in Program Planning Seminar.**

Addresses principles and procedures, issues and trends, utilization of assessment, goal setting, and other effective strategies for developing learning opportunities and programs responsive to human, professional, and community needs. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7326. Theoretical Foundations of Educational Policy, Politics and Practice.**

This course examines the historical and theoretical underpinnings informing educational policy, politics and social justice. It addresses both the micro and macro levels of the context, values, and cultural norms guiding policy and practice in a democratic society. Prerequisites: ED 7311, ED 7312, and ED 7313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7327. Education Policy Development.**

This course equips students with the skills needed to analyze the origins and consequences of existing policy and to play active roles in policy development for educational equity and social justice. Prerequisite: ED 7326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7328. Research and Analysis in Education Policy.**

This course engages students in a field-based educational policy research project using quantitative and qualitative techniques. Students will develop their skills to identify policy issues, gather and analyze data, and draw conclusions, and disseminate findings. Prerequisites: ED 7326, ED 7327, ED 7351, and ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7329. Field-Based Experience in Educational Policy.**

This course provides fieldbased practice in policy analysis and development from a democratic and social justice perspective. With guidance from a university faculty supervisor and site mentor, the student will develop and implement a policy project related to democracy and social justice. Prerequisite: ED 7328

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7331. Foundations of School Improvement.**

Examines school improvement efforts from philosophical, political, psychological, cultural, ethical, and technological foundations.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7332. Facilitating School Improvement.**

Examines school culture, schools as learning communities, the change process, and research-based school improvement models, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7333. Curriculum and Instructional Leadership.**

Examines the relationship between curriculum, instructional improvement, and teacher development, with experiential applications.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7334. Models of Educational Assessment.**

Includes assessment of student learning at the individual, classroom, school, and system level; teacher assessment; and program assessment.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7341. Dissertation Proposal Development.**

In this course students approaching dissertation stage meet in a seminar designed to help them clarify their research problem and develop a preliminary proposal for the dissertation. Core and concentration courses must be completed with minimum grades of "B" in each course prior to taking ED 7341. Prerequisites: ED 7351, ED 7352, and ED 7353 or ED 7354 with minimum grades of "B". Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7345. Human Resources and Instructional Management.**

This course focuses on the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management, staff supervision, appraisal, and development, curriculum planning and alignment and student assessment. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7347. The Superintendency.**

This course addressed issues critical to superintendents in Texas. These include leadership, leadership assessment, school board relations, and other governance issues, management strategies, the role of public education in a democratic society, and professional ethics. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7349. School Finance and Business Management.**

This course focuses on the financing of public schools. Students will examine the school budgeting process, sources of school revenues, principals of taxation, methods of school fund accounting, and techniques of business management. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7350. Methods of Research in Education.**

This course provides an introduction to the design and analysis of quantitative and qualitative research in education. Topics included are quantitative research design, measurement, and statistical analysis. From a qualitative perspective, the course provides an introduction to the various qualitative modes of inquiry relevant to education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7351. Beginning Quantitative Research Design and Analysis.**

Includes descriptive statistics; sampling techniques; statistical inference including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA.

Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7352. Beginning Qualitative Design and Analysis.**

Introduces the qualitative paradigm. Includes distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on issues in the design and implementation of quantitative research. Topics include ANOVA, ANCOVA, and MANOVA, correlation analysis, regression analysis, nonparametric tests, and relationships between experimental designs and statistical analysis techniques. Prerequisite: ED 7351 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7354. Intermediate Qualitative Design and Analysis.**

Focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research. Prerequisite: ED 7352 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7355. Non-Parametric Research Design and Analysis.**

This course is designed to address problems in education in situations where the sample size collected is small, categorical in nature, of non-parametric research design and statistical methods are covered in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7357. Advanced Study in Action Research.**

This course examines underlying theory, practice, skills, and issues in action research. Conducting research in the area of action research is also addressed. This course is an appropriate elective for majors in School Improvement or Adult, Professional and Community Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Advanced study in the historical, philosophical, conceptual, and theoretical underpinnings of qualitative research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods. Prerequisites:

ED 7351 and ED 7353 with minimum grades of "B" in each course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7361. Understanding People: Professional Development.**

Fundamental issues related to development of personnel. Knowledge of staff appraisal, adult learning and development, and staff development.

Focus on professional development in K-12 schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7362. Supervision of Instruction.**

Concepts of curriculum and instructional models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered as part of the internal environment. An emphasis will be placed on supervision knowledge, skills, and tasks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7363. Curriculum Design.**

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Focus on K-12 school curricula. Students who have completed EDA 6342 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7364. Team Development in Education.**

This course addresses the development and use of educational teams to improve educational organizations, teaching, and learning. Because of its focus on education, it is recommended only for doctoral students preparing for careers in educational settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7365. Cross-cultural Leadership in Education.**

Students will work as a team to undertake a research study of leadership across cultures in the U.S. and Mexico. Students must be accepted in the Education Ph.D. program. Fluency in Spanish is preferred. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ED 7371. Anthropology and Education.**

This course introduces the student to the basic concepts in anthropology and education and sketches the application of these concepts. It explores the research in anthropology and education with relevance to both K-12 schools and other, more general educational settings. The course is an appropriate elective for Education Ph.D. majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7372. The Emotions of Leading, Teaching, and Learning.**

This course offers an introduction to theories of emotion, leading, teaching, and learning as interconnected fields. Students in this course will achieve a theoretical grounding that will deepen their understandings of the relationship of emotion to all of these important human endeavors. This course will be of interest of practitioners, researchers, and/or theorists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7378. Problems in Education.**

Individual problems or topics will be designed and completed to emphasize selected areas of study. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**ED 7379. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Counseling, Leadership, Adult Education & School Psychology Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7389A. Theological Issues in Education.**

This course focuses on theological issues in education. Informed by the disciplinary structures of curriculum theory, this seminar course convokes a community of scholars and practitioners in thoughtful dialogue and study that takes up questions of spiritual, moral, and theological issues within education in a pluralistic society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389B. Seminar in International Educational Research: Chile.**

This course develops theoretical knowledge, methodological skills, and scholarly capacity for international educational research. It focuses on research within the complex educational environment of Chile, involving seminar components held at the university and research fieldwork in Chile. International research is framed as a form of service learning.

Restricted to students in the PhD in Education program

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389C. Advanced Theory in Qualitative Research.**

This course features advanced study in qualitative research methods. The course studies such methods as ethnography, case study, phenomenology, narrative analysis, post-qualitative research, grounded theory, or more advanced qualitative research in general and their constitutive field techniques. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389D. Advanced Theory in Qualitative Research: Narrative Research.**

The purpose of this course is to explore the possibilities of narrative research. The course will provide an overview of narrative inquiry, look at various theories and corresponding examples of research, and explore, analyze, and interpret data using narrative methods. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389E. Mexican Perspectives on Mexico - U.S. Immigration.**

The course gives U.S. educators an understanding of Mexican to U.S. immigration from Mexican women's perspectives. Students will read background information and visit Mexico where through lectures, field interviews, and field visits, they will view immigration from the "other side". They will analyze and write up data when they return

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389G. Adult Learners in Higher Education.**

This course examines adult academic learning, instruction, and the particular challenges adults face balancing multiple life demands and often studying in a system established to meet the needs of younger students. Course may not be repeated. Maximum 3 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389L. Writing for Publication.**

Students will hone their writing skills. Students will work individually and in groups, getting feedback from other students and the instructor. Topics include APA style, getting started, first drafts, polishing and tightening, re-writing, submitting a manuscript, responding to feedback/reviews and more. Restricted to masters' and doctoral students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389M. Shifting Demographics in Texas: Exploring Education, Democracy and Healthy Communities.**

Students will explore the shifting population in Texas through multiple frames including historical, sociological, anthropological and political. Class will canvas the literature and emerging community conditions as a vehicle for imagining possible theoretical, policy and local responses to the conditions we see in schools and local communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7390. Survey Research and Scale Development.**

This course provides the technical information necessary to design and conduct a quantitative or mixed-method survey research project. The course is divided into three sections: 1) the details of scale development; 2) details of sample selection and survey delivery systems, and 3) data analysis, writing, and presenting results effectively

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7399A. Dissertation.**

Original research and writing in Adult, Professional, and Community Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7399B. Dissertation.**

Original research and writing in School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7599A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7599B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699A. Dissertation.**

The student conducts original research and writing in Adult, Professional, and Community Education, guided by the direct supervision of the dissertation chair. While conducting dissertation research and writing, students must be continuously enrolled. The course is graded on a credit (CR), progress (PR) or no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699B. Dissertation.**

Students produce a dissertation under direct supervision of dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. This course is graded on a credit (CR), progress (PR), or no-credit (F) basis. Prerequisites: Core, Concentration, and Methodology courses or instructor's permission

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999B. Dissertation.**

Original research and writing in Education-School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Mathematics (MATH)****MATH 7111. Seminar in Teaching.**

Seminar on individual study projects concerned with selected problems in the teaching of mathematics. This course does not count for degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 7187. Seminar in Mathematics.**

Students are required to attend weekly research seminars in mathematics and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7188. Seminar in Mathematics Education.**

Students are required to attend weekly research seminars in Mathematics Education and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7199A. Dissertation.**

Original research and writing in Mathematics Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**MATH 7299A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7301. Studies in Mathematics.**

This course provides basic foundations in Mathematics for students entering the doctoral program in Mathematics Education. This course may be repeated, but the course does not earn graduate degree credit and cannot be used for degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 7302. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7303. Analysis I.**

This course covers foundations of modern analysis. Topics include: sequences,  $\text{LimSup}$ ,  $\text{LimInf}$ , Sigma Algebras of sets that include open and closed sets, sequences of functions, pointwise and uniform convergence, lower and upper semi-continuity, Borel sets, outer measure, and Lebesgue measure. Prerequisite: MATH 4315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7306. Current Research in Math Education.**

This course surveys the various current social, political, and economic trends in local, state, national, and international settings that are related to research in Mathematics Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7307. Algebra I.**

Applications of Algebra and topics in modern algebra, including permutation groups, symmetry groups, Sylow theorems, and select topics from Ring Theory. Prerequisite: MATH 4307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7309. Topology I.**

A course in point-set topology emphasizing topological spaces, continuous functions, connectedness, compactness, countability, separability, metrizability, CW-complexes, simplicial complexes, nerves, and dimension theory. Prerequisite: MATH 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7313. Analysis II.**

This course covers the theory of integration with special emphasis on Lebesgue integrals. Topics include: Lebesgue integral, Bounded Convergence theorem, differentiation and integration, absolute continuity, and  $L_p$  spaces. Prerequisite: Math 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7317. Algebra II.**

A study of the important algebraic structures of rings and fields. Topics covered include rings, ideals, modules, polynomial rings, Euclidean algorithm, finite fields, and field extensions. Topics also include an introduction to Galois Theory with an emphasis on the geometric applications. Prerequisite: MATH 7307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7319. Topology II: Algebraic Topology.**

This course covers the fundamental concepts and tools of algebraic topology. Topics include the fundamental group, covering spaces, homotopy type, the higher homotopy groups, singular homology theory, and the computation of homology groups via exact sequences and applications. Prerequisite: MATH 7307 and MATH 7309

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7321. Graph Theory.**

Topics in this course include trees, connectivity of graphs, Eulerian graphs, Hamiltonian graphs, planar graphs, graph coloring, matchings, factorizations, digraphs, networks, and network flow problems.

Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7324. Curriculum Design & Analysis.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques that are related to curriculum design in Mathematics Education for grade levels P-16

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7325. Statistics 1.**

A study of the mathematical and probabilistic underpinnings of the techniques used in statistical inference. Topics covered include sampling, sampling distributions, confidence intervals, and hypothesis testing with an emphasis on both simulations and derivations.

Prerequisite: Math 2321, Math 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7328. Instructional Techniques & Assessments.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques of instruction in Mathematics Education and the related assessment procedures for each for grade levels P-20

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7331. Combinatorics.**

This course is a study of fundamental principles of combinatorics. Topics include: permutations and combinations, the Pigeonhole principle, the principle of inclusion-exclusion, binomial and multinomial theorems, special counting sequences, partitions, posets, extremal set theory, generating functions, recurrence relations, and the Polya theory of counting. Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 7335. Statistics II: Linear Modeling.**

A study of the formulation and statistical methodologies for fitting linear models. Topics include the general linear hypothesis, least-squares estimation, Gauss-Markov theorem, assessment of model fit, effects of departures from assumptions, model design, and criteria for selection of optimal regression models. Prerequisite: MATH 3377 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7346. Quantitative Research Analysis in Mathematics Education.**

This course surveys the various research techniques used in quantitative analysis for mathematics education and covers topics such as experimental design, statistical analysis, and use of appropriate design methodologies to achieve the strongest possible evidence to support or refute a knowledge claim. Prerequisite: MATH 7306 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7356A. Advanced Quantitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in quantitative research. Prerequisite: MATH 7346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356B. Advanced Qualitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in qualitative research. Prerequisite: ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356C. Action Research in Mathematics Education.**

This course examines underlying theory and issues in action research model and the development of action research projects. Prerequisites: MATH 7346 or ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7361. Seminar in Advanced Mathematics.**

Material in course will vary with the interest of students and faculty. A detailed study of subject matter may be chosen from advanced areas of analysis; algebra; topology and geometry; applied mathematics; and probability and statistics. This course is repeatable for credit when subject matter varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7366A. Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors).**

This course examines how to develop and teach post-secondary students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisites: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366B. Teaching K-12 Students (Elementary, Middle School, and High School).**

This course examines how to develop and teach K-12 students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366C. Teaching Teachers (In-Service; Pre-Service).**

This course examines how to prepare teachers of mathematics. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366D. Teaching Specialized Content.**

This course will be an in-depth study of a specialized content area in mathematics with an emphasis on teaching. The specific content area will vary by instructor. Examples include Euclidean Simplex Geometry and Discrete Probability Spaces with Implications for Public School Curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366E. Developmental Mathematics Curriculum.**

This course surveys the research, development, and evaluation of the scope and sequence of developmental mathematics curriculum. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7371A. Advanced Graph Theory.**

Topics in this course include Turan's problems, Ramsey theory, random graph theory, extremal graph theory, algebraic graph theory, domination of graphs, distance problems, and applications. Prerequisite: MATH 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371B. Advanced Combinatorics.**

Topics in this course include Block designs, Latin squares, combinatorial optimization problems, coding theory, matroids, difference sets, and finite geometry. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371C. Combinatorial Number Theory.**

A study of fundamental techniques in combinatorial number theory. Topics will include Waring's problem, additive number theory, and probabilistic methods in number theory. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371D. Discrete Optimization.**

A study of some fundamental techniques in discrete optimization. Topics include discrete optimization, linear programming, integer programming, integer nonlinear programming, dynamic programming, location problem, scheduling problem, transportation problem, postman problem, traveling salesman problem, matroids, and NP-completeness. Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371E. Algorithms and Complexity.**

A study of some fundamental concepts of computability and complexity. Topics include polynomially bounded problems, NP-complete problems, exponentially hard problems, undecidable problems, and reducibility. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371F. Probabilistic Methods in Discrete Mathematics.**

A study of some fundamental probabilistic techniques used to solve problems in graph theory, combinatorics, combinatorial number theory, combinatorial geometry, and algorithm. Topics include linearity of expectation, alterations, second moment, local lemma, correlation inequalities, martingales, Poisson paradigm, and pseudo-randomness. Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371G. Applied Discrete Mathematics.**

This course introduces fundamental concepts in logic, Boolean algebra, and binomial coefficients; and applications in different fields such as complexity of algorithms and network theory. Prerequisites: MATH 2472 and MATH 4307 with a grade of "C" or higher, or with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371H. Combinatorial Networks.**

Combinatorial Networks is an area of study of certain types of networks using combinatorial methods extensively. This course introduces fundamental basics as well as the latest development in this area of research. Prerequisite: MATH 5307/7307 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375C. Time Series Analysis.**

A study of the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375D. Advanced linear Modeling.**

The course provides an extension of regression methodology to more general settings where standard assumptions for ordinary least squares are violated. Topics include generalized least squares, robust regression, bootstrap, regression in the presence of autocorrelated errors, generalized linear models, and logistic and Poisson regression. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378A. Problem Solving, Reasoning, and Proof.**

A study of the fundamental concepts of problem solving, logic, set theory, and mathematical proof and applications of these concepts in mathematics curriculum for grades P-20. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378B. Connecting and Communicating Math.**

This course examines one of the basic principles involved in mathematics education: Connecting and Communicating Mathematics. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378C. Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration).**

This course examines the basic principles involved in mathematics education. The process of representing fundamental mathematical ideas will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378D. Math Technologies.**

This course examines the basic principles involved in mathematics education: Technology. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378E. Developmental Mathematics Perspectives.**

This course examines developmental mathematics-specific strands including technological course support and placement tools/decisions. Issues related to the first mathematics core course required of undergraduates will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7378F. Research on Mathematical Problem Solving in Secondary Schools.**

In this course a careful study is made of elementary techniques for problem solving in a variety of domains, including algebra, number theory, combinatorics, geometry, and logic puzzles. Students will learn these techniques by actually working on a collection of problems in each of these areas. Students will read and examine research about various aspects of problem solving and research in math education that includes both teacher training and student learning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7385. Independent Study in Mathematics.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of mathematics. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7386. Independent Study in Mathematics Education.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Mathematics Education. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7389. Internship.**

Students will work under the supervision of a faculty member to gain practical knowledge in Mathematics Education. Student experience can come from industry, government agencies, or other sources but must directly apply to furthering knowledge of mathematics education or its application

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7396. Mathematics Education Research Seminar.**

Collaborative research projects with faculty through identifying an educational issue, reviewing literature, creating a research question, designing a methodology, analyzing data, drawing conclusions, implications, and creating a draft of a publishable paper. Prerequisite: MATH 7356, and (ED 7352 or MATH 7346)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7399A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7599A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7699A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7999A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Applied Mathematics

### Admission Policy

For information regarding admission and application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/apma.html>.

### Degree Requirements

The master of science (M.S.) degree with a major in applied mathematics consists of 24 hours of mathematics plus a thesis.

### Course Work Requirements

#### Applied Mathematics Course Work

MATH 5373	Theory of Functions of Real Variables	3
MATH 5355	Applied and Algorithmic Graph Theory	3
MATH 5345	Regression Analysis	3

#### Required Support Elective Course Work

Choose 9 hours from the following:		9
MATH 5301	Partial Differential Equations	
MATH 5312	Functions of a Complex Variable	
MATH 5340	Scientific Computation	
MATH 5360	Mathematical Modeling	
MATH 5376A	Design and Analysis of Experiments	
MATH 5376B	Analysis of Variance	

#### Elective Course Work

Choose 6 hours from the following:		6
MATH 5305	Advanced Course in Probability and Statistics	
MATH 5307	Modern Algebra	
MATH 5313	Field Theory	
MATH 5329	General Topology	
MATH 5336	Studies in Applied Mathematics	
MATH 5350	Combinatorics	
MATH 5358	Applied Discrete Mathematics	

#### Thesis Course Work

Choose a minimum 6 hours from the following:		6
MATH 5199B	Thesis	

MATH 5299B	Thesis	
MATH 5399A	Thesis	
MATH 5399B	Thesis	
MATH 5599B	Thesis	
MATH 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor

may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Mathematics: MATH (p. 1218), MTE (p. 1220)



## Courses Offered

### Mathematics (MATH)

#### MATH 5111. Graduate Assistant Training.

This course is concerned with techniques used in the teaching of mathematics. This course is required as a condition of employment for graduate teaching and instructional assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### MATH 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5301. Partial Differential Equations.

Theory and application of partial differential equations; derivation of the differential equation; use of vector and Tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics. Prerequisites: MATH 3323 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5303. History of Mathematics.

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for M.S. degree. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5304. Topics in Mathematics for the Secondary Teacher.

A study of the current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for M.S. degree. Prerequisite: A grade of C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5305. Advanced Course in Probability and Statistics.

Advanced topics in probability and statistics. May be repeated once with different emphasis for additional credit. Prerequisite: MATH 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5306. Ring Theory.

Prerequisite: A grade of at least a "C" in MATH 4307 or a grade of at least a "B" in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5307. Modern Algebra.

Topics in modern algebra. Material will be adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5311. Foundations of Differential Equations.

A critical study of the foundations of derivation equations, operator spaces, and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.

Prerequisite: A grade of at least a C in MATH 3373 and either 3380 or 5382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5312. Functions of a Complex Variable.

Modern developments in the field of a complex variable. Prerequisite: A grade of at least a C in MATH 3373; either 3380 or 5382; and 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5313. Field Theory.

Topics in field theory, separable extensions, and Galois Theory.

Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5314. Number Theory.

Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5317. Problems in Advanced Mathematics.

Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required. May be repeated with different emphasis. This course does not count toward any degree in the Department of Mathematics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### MATH 5319. The Theory of Integration.

A course in the theory of integration with special emphasis on the Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 5329. General Topology.**

Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, and the C-W complexes. Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5331. Metric Spaces.**

Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.

Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5336. Studies in Applied Mathematics.**

Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. May be repeated with different emphasis for additional credit. Prerequisites: Six hours of advanced mathematics pertinent to topic and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5340. Scientific Computation.**

This course will involve the analysis of algorithms from science and mathematics, and the implementation of these algorithms using a computer algebra system. Symbolic numerical and graphical techniques will be studied. Applications will be drawn from science, engineering, and mathematics. Prerequisite: MATH 3323 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MATH 5345. Regression Analysis.**

This course introduces formulation and statistical methodologies for simple and multiple regression, assessment of model fit, model design, and criteria for selection of optimal regression models. Students will develop skills with the use of statistical packages and the writing of reports analyzing a variety of real-world data. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5350. Combinatorics.**

This course, covers permutations, combinations, Stirling numbers, chromatic numbers, Ramsey numbers, generating functions, Polya theory, Latin squares and random block design. Prerequisite: MATH 3398 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5355. Applied and Algorithmic Graph Theory.**

This course is designed to emphasize the close tie between the theoretical and algorithmic aspects. The topics may include basic concepts such as connectivity, trees, planarity, coloring of graphs, matchings, and networks. It also covers many algorithms such as Max-flow Min-cut algorithm, maximum matching algorithm, and optimization algorithms for facility location problems in networks. Prerequisite: MATH 5388 or MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5358. Applied Discrete Mathematics.**

Boolean algebra, counting techniques, discrete probability, graph theory, and related discrete mathematical structures that are commonly encountered in computer science. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5360. Mathematical Modeling.**

This course introduces the process and techniques of mathematical modeling. It covers a variety of application areas from the natural sciences. Emphasis is placed on deterministic systems, stochastic models, and diffusion. Prerequisite: MATH 3373, MATH 3323, and MATH 5301, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5373. Theory of Functions of Real Variables.**

This course will discuss those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis.

Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5374. Numerical Linear Algebra.**

This course introduces tools that mathematical scientists use with vectors and matrices. Applications include least squares and eigenvalue problems, and systems of equations from applied mathematics. The stability of algorithms to perturbations are considered. Theory is balanced with numerically implementing algorithms, in particular for iterative methods for large, sparse systems. Prerequisite: MATH 3377 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5376A. Design and Analysis of Experiments.**

This course introduces fundamental concepts in the design of experiments, justification of linear models, randomization and principles of blocking. It also discusses the construction and analysis of basic designs including fractional replication, composite designs, factorial designs, and incomplete block designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5376B. Analysis of Variance.**

This course introduces basic methods, one-way, two-way ANOVA procedures, and multifactor ANOVA designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5381. Foundations of Set Theory.**

A formal study of the theory of sets, relations, functions, finite and infinite sets, set operations and other selected topics. This course will also train the student in the understanding of mathematical logic and the writing of proofs. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5382. Foundation of Real Analysis.**

A course covering the foundations of mathematical analysis. Topics include: real numbers, sequences, series, and limits and continuity of functions. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5384. Geometric Approach to Abstract Algebra.**

Definitions and elementary properties of groups, rings, integral domains, fields and vector spaces with great emphasis on the rings of integers, rational numbers, complex numbers, polynomials, and the interplay between algebra and geometry. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5386. Knots and Surfaces, An Introduction to Low-Dimensional Topology.**

Knot polynomials and other knot invariants. The topological classification of surfaces and topological invariants of surfaces. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5388. Discrete Mathematics.**

This course covers topics from: basic and advanced techniques of counting, recurrence relations, discrete probability and statistics, and applications of graph theory. Prerequisites: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5390. Statistics.**

This course will cover not only some of the basic statistical ideas and techniques but also the mathematical and probabilistic underpinnings of these techniques with an emphasis on simulations and modeling. The planning, conducting, analysis, and reporting of experimental data will also be covered. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5392. Survey of Geometries.**

A study of topics in geometry including geometrical transformations, the geometry fractals, projective geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5393. Numerical Optimization.**

This course focuses on optimization methods for a broad range of applications, such as engineering and applied sciences. Subjects are the basic theory of optimization, numerical algorithms to locate points satisfying optimality conditions and to analyze the convergence properties. Prerequisites: MATH 2472, MATH 3377 and MATH 3383, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Mathematics for Teacher Education (MTE)****MTE 5301E. Visual Models for Middle School Mathematics.**

This course uses visual models to motivate understanding of the fundamental concepts underlying middle school mathematics. Pedagogical techniques to engage middle school students will also be addressed including inquiry-based instructional methods utilizing these visual models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301F. Implementing New Mathematics Curriculum.**

In this course we will investigate the keys to successfully implementing new curriculum. Two main aspects considered are: 1) the mathematical content knowledge required for a new curriculum and 2) how to build a community of practice which provides support during the implementation process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301G. Mathematics for Teaching.**

A study of the current trends and topics found in the secondary school mathematics curriculum taught from an advance perspective. Course context will be flexible and topics will be selected on the basis of student needs and interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5302A. Quantitative Reasoning.**

This course covers current pedagogy, curriculum, and methods related specifically to the teaching of middle school mathematics. Some of the topics explored are curriculum theory, instructional theory, learning theory, problem solving, national and state standards and assessment, discovery learning, assessment methods, manipulative, and technology in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5311. Quantitative Reasoning.**

This course will focus on numerical reasoning and problem solving with particular attention being placed on strategies for solving problems, methods for mental computation and computational estimation, and algorithmic processes being taught in a studentcentered atmosphere where teachers are free to take risks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5313. Geometry and Measurement.**

This course will focus on using spatial reasoning to investigate the concepts of direction, orientation, shape and structure; using mathematical reasoning to develop and prove geometric relationships; using logical reasoning and proof in relation to the axiomatic structure of geometry; using measurement of geometry concepts to solve real-world problems. 5315 Algebraic Reasoning. (3-0) This course will focus on using algebraic reasoning to

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5315. Algebraic Reasoning.**

This course will focus on using algebraic reasoning to investigate patterns, make generalizations, formulate mathematical models, and make predications; using properties, graphs, and applications of relations and function to analyze, model and solve problems; and making connections among geometric, graphic, numeric and symbolic representation of functions and relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5317. Math Modeling.**

This course will focus on modeling problems, applying appropriate mathematical analysis and drawing conclusions from the analysis; solving problems recursively, using linear and non-linear functions and using geometry and discrete mathematics to solve problems in Science, Music, and Art. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5319. Concepts of Calculus.**

A first course in differential and integral calculus. The student will explore the slope of secant lines, average velocity, limit, instantaneous velocity, derivative, slope of a curve at a point, area under a graph, integrals, fundamental theorem of calculus, and applications. Prerequisite: MTE 5317 or consent of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5321. Probability and Statistics.**

This course will deal with using graphical and numerical techniques to explore data, characterize patterns, and describe departures from patterns; designing experiments to solve problems; understanding the theory of probability and its relationship to sampling and statistical inference and its use in making and evaluating predication. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5323. Logic and Foundations of Mathematics.**

This course will consist of an introduction to fundamental mathematical structures and techniques of proof. Topics will include: logic, set theory, number theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisite: MTE 5313 and MTE 5319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Master of Education (M.Ed.), Major in Mathematics

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/math.html>.

### Degree Requirements

The master of education (M.Ed.) degree with a major in mathematics consists of 27 hours of mathematics, plus a minimum of nine hours in an advisor-approved minor.

### Course Work Requirements

#### Required Mathematics Course Work

MATH 5381	Foundations of Set Theory	3
MATH 5382	Foundation of Real Analysis	3
MATH 5384	Geometric Approach to Abstract Algebra	3

#### Elective Mathematics Course Work

Choose 18 hours of advisor-approved electives	18
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#### Minor Course Work

Choose a 9-hour minor with advisor approval	9
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Total Hours	36
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Master's level courses in Mathematics: MATH (p. 1221), MTE (p. 1224)

## Courses Offered Mathematics (MATH)

**MATH 5111. Graduate Assistant Training.**

This course is concerned with techniques used in the teaching of mathematics. This course is required as a condition of employment for graduate teaching and instructional assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5301. Partial Differential Equations.**

Theory and application of partial differential equations; derivation of the differential equation; use of vector and Tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics. Prerequisites: MATH 3323 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5303. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for M.S. degree. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5304. Topics in Mathematics for the Secondary Teacher.**

A study of the current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for M.S. degree. Prerequisite: A grade of C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5305. Advanced Course in Probability and Statistics.**

Advanced topics in probability and statistics. May be repeated once with different emphasis for additional credit. Prerequisite: MATH 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5306. Ring Theory.**

Prerequisite: A grade of at least a "C" in MATH 4307 or a grade of at least a "B" in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5307. Modern Algebra.**

Topics in modern algebra. Material will be adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5311. Foundations of Differential Equations.**

A critical study of the foundations of derivation equations, operator spaces, and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.

Prerequisite: A grade of at least a C in MATH 3373 and either 3380 or 5382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5312. Functions of a Complex Variable.**

Modern developments in the field of a complex variable. Prerequisite: A grade of at least a C in MATH 3373; either 3380 or 5382; and 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5313. Field Theory.**

Topics in field theory, separable extensions, and Galois Theory.

Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5314. Number Theory.**

Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5317. Problems in Advanced Mathematics.**

Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required. May be repeated with different emphasis. This course does not count toward any degree in the Department of Mathematics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 5319. The Theory of Integration.**

A course in the theory of integration with special emphasis on the Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5329. General Topology.**

Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, and the C-W complexes. Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5331. Metric Spaces.**

Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.

Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 5336. Studies in Applied Mathematics.**

Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. May be repeated with different emphasis for additional credit. Prerequisites: Six hours of advanced mathematics pertinent to topic and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5340. Scientific Computation.**

This course will involve the analysis of algorithms from science and mathematics, and the implementation of these algorithms using a computer algebra system. Symbolic numerical and graphical techniques will be studied. Applications will be drawn from science, engineering, and mathematics. Prerequisite: MATH 3323 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MATH 5345. Regression Analysis.**

This course introduces formulation and statistical methodologies for simple and multiple regression, assessment of model fit, model design, and criteria for selection of optimal regression models. Students will develop skills with the use of statistical packages and the writing of reports analyzing a variety of real-world data. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5350. Combinatorics.**

This course, covers permutations, combinations, Stirling numbers, chromatic numbers, Ramsey numbers, generating functions, Polya theory, Latin squares and random block design. Prerequisite: MATH 3398 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5355. Applied and Algorithmic Graph Theory.**

This course is designed to emphasize the close tie between the theoretical and algorithmic aspects. The topics may include basic concepts such as connectivity, trees, planarity, coloring of graphs, matchings, and networks. It also covers many algorithms such as Max-flow Min-cut algorithm, maximum matching algorithm, and optimization algorithms for facility location problems in networks. Prerequisite: MATH 5388 or MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5358. Applied Discrete Mathematics.**

Boolean algebra, counting techniques, discrete probability, graph theory, and related discrete mathematical structures that are commonly encountered in computer science. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5360. Mathematical Modeling.**

This course introduces the process and techniques of mathematical modeling. It covers a variety of application areas from the natural sciences. Emphasis is placed on deterministic systems, stochastic models, and diffusion. Prerequisite: MATH 3373, MATH 3323, and MATH 5301, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5373. Theory of Functions of Real Variables.**

This course will discuss those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5374. Numerical Linear Algebra.**

This course introduces tools that mathematical scientists use with vectors and matrices. Applications include least squares and eigenvalue problems, and systems of equations from applied mathematics. The stability of algorithms to perturbations are considered. Theory is balanced with numerically implementing algorithms, in particular for iterative methods for large, sparse systems. Prerequisite: MATH 3377 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5376A. Design and Analysis of Experiments.**

This course introduces fundamental concepts in the design of experiments, justification of linear models, randomization and principles of blocking. It also discusses the construction and analysis of basic designs including fractional replication, composite designs, factorial designs, and incomplete block designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5376B. Analysis of Variance.**

This course introduces basic methods, one-way, two-way ANOVA procedures, and multifactor ANOVA designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5381. Foundations of Set Theory.**

A formal study of the theory of sets, relations, functions, finite and infinite sets, set operations and other selected topics. This course will also train the student in the understanding of mathematical logic and the writing of proofs. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5382. Foundation of Real Analysis.**

A course covering the foundations of mathematical analysis. Topics include: real numbers, sequences, series, and limits and continuity of functions. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5384. Geometric Approach to Abstract Algebra.**

Definitions and elementary properties of groups, rings, integral domains, fields and vector spaces with great emphasis on the rings of integers, rational numbers, complex numbers, polynomials, and the interplay between algebra and geometry. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 5386. Knots and Surfaces, An Introduction to Low-Dimensional Topology.**

Knot polynomials and other knot invariants. The topological classification of surfaces and topological invariants of surfaces. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5388. Discrete Mathematics.**

This course covers topics from: basic and advanced techniques of counting, recurrence relations, discrete probability and statistics, and applications of graph theory. Prerequisites: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5390. Statistics.**

This course will cover not only some of the basic statistical ideas and techniques but also the mathematical and probabilistic underpinnings of these techniques with an emphasis on simulations and modeling. The planning, conducting, analysis, and reporting of experimental data will also be covered. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5392. Survey of Geometries.**

A study of topics in geometry including geometrical transformations, the geometry fractals, projective geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5393. Numerical Optimization.**

This course focuses on optimization methods for a broad range of applications, such as engineering and applied sciences. Subjects are the basic theory of optimization, numerical algorithms to locate points satisfying optimality conditions and to analyze the convergence properties. Prerequisites: MATH 2472, MATH 3377 and MATH 3383, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Mathematics for Teacher Education (MTE)****MTE 5301E. Visual Models for Middle School Mathematics.**

This course uses visual models to motivate understanding of the fundamental concepts underlying middle school mathematics.

Pedagogical techniques to engage middle school students will also be addressed including inquiry-based instructional methods utilizing these visual models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301F. Implementing New Mathematics Curriculum.**

In this course we will investigate the keys to successfully implementing new curriculum. Two main aspects considered are: 1) the mathematical content knowledge required for a new curriculum and 2) how to build a community of practice which provides support during the implementation process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301G. Mathematics for Teaching.**

A study of the current trends and topics found in the secondary school mathematics curriculum taught from an advance perspective. Course context will be flexible and topics will be selected on the basis of student needs and interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5302A. Quantitative Reasoning.**

This course covers current pedagogy, curriculum, and methods related specifically to the teaching of middle school mathematics. Some of the topics explored are curriculum theory, instructional theory, learning theory, problem solving, national and state standards and assessment, discovery learning, assessment methods, manipulative, and technology in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5311. Quantitative Reasoning.**

This course will focus on numerical reasoning and problem solving with particular attention being placed on strategies for solving problems, methods for mental computation and computational estimation, and algorithmic processes being taught in a studentcentered atmosphere where teachers are free to take risks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5313. Geometry and Measurement.**

This course will focus on using spatial reasoning to investigate the concepts of direction, orientation, shape and structure; using mathematical reasoning to develop and prove geometric relationships; using logical reasoning and proof in relation to the axiomatic structure of geometry; using measurement of geometry concepts to solve real-world problems. 5315 Algebraic Reasoning. (3-0) This course will focus on using algebraic reasoning to

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5315. Algebraic Reasoning.**

This course will focus on using algebraic reasoning to investigate patterns, make generalizations, formulate mathematical models, and make predications; using properties, graphs, and applications of relations and function to analyze, model and solve problems; and making connections among geometric, graphic, numeric and symbolic representation of functions and relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5317. Math Modeling.**

This course will focus on modeling problems, applying appropriate mathematical analysis and drawing conclusions from the analysis; solving problems recursively, using linear and non-linear functions and using geometry and discrete mathematics to solve problems in Science, Music, and Art. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5319. Concepts of Calculus.**

A first course in differential and integral calculus. The student will explore the slope of secant lines, average velocity, limit, instantaneous velocity, derivative, slope of a curve at a point, area under a graph, integrals, fundamental theorem of calculus, and applications. Prerequisite: MTE 5317 or consent of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5321. Probability and Statistics.**

This course will deal with using graphical and numerical techniques to explore data, characterize patterns, and describe departures from patterns; designing experiments to solve problems; understanding the theory of probability and its relationship to sampling and statistical inference and its use in making and evaluating predication. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5323. Logic and Foundations of Mathematics.**

This course will consist of an introduction to fundamental mathematical structures and techniques of proof. Topics will include: logic, set theory, number theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisite: MTE 5313 and MTE 5319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

# Master of Science (M.S.), Major in Mathematics

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/math.html>.

## Degree Requirements

The master of science (M.S.) degree with a major in mathematics consists of 24 hours plus 6 hours of thesis, or a minimum of 36 hours without a thesis. Non-thesis master of science students who select the degree option which includes a minor will have a minimum of 27 hours in the major and a minimum of 9 hours in a minor; thesis students will choose a 6-hour minor. Those choosing the non-minor option may select, in consultation with the graduate advisor, all their degree courses from the mathematics curriculum.

## Course Work Requirements

### Non-thesis, Minor Option

#### Required Courses

MATH 5307	Modern Algebra	3
MATH 5373	Theory of Functions of Real Variables	3
MATH 5329	General Topology	3
or MATH 5331	Metric Spaces	

**Graduate Advisor Approved Electives** 18

**Minor Course Work** 9

**Total Hours** 36

### Thesis, Minor Option

#### Required Courses

MATH 5307	Modern Algebra	3
MATH 5373	Theory of Functions of Real Variables	3
MATH 5329	General Topology	3
or MATH 5331	Metric Spaces	

**Graduate Advisor Approved Electives** 9

#### Thesis Course Work

Choose a minimum 6 hours 6

MATH 5199B	Thesis	
MATH 5299B	Thesis	
MATH 5399A	Thesis	
MATH 5399B	Thesis	
MATH 5599B	Thesis	
MATH 5999B	Thesis	

**Minor Course Work** 6

**Total Hours** 30

### Non-thesis Option, No Minor

#### Required Courses

MATH 5307	Modern Algebra	3
MATH 5373	Theory of Functions of Real Variables	3
MATH 5329	General Topology	3
or MATH 5331	Metric Spaces	

<b>Graduate Advisor Approved Electives</b>	27
Total Hours	36

### Thesis Option, No Minor

#### Required Courses

MATH 5307	Modern Algebra	3
MATH 5373	Theory of Functions of Real Variables	3
MATH 5329	General Topology	3
or MATH 5331	Metric Spaces	

<b>Graduate Advisor Approved Electives</b>	15
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#### Thesis Course Work

Choose a minimum 6 hours	6	
MATH 5199B	Thesis	
MATH 5299B	Thesis	
MATH 5399A	Thesis	
MATH 5399B	Thesis	
MATH 5599B	Thesis	
MATH 5999B	Thesis	

Total Hours	30
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If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject

matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction in the Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the

personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Mathematics: MATH (p. 1227), MTE (p. 1229)

## Courses Offered

### Mathematics (MATH)

#### MATH 5111. Graduate Assistant Training.

This course is concerned with techniques used in the teaching of mathematics. This course is required as a condition of employment for graduate teaching and instructional assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### MATH 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5301. Partial Differential Equations.

Theory and application of partial differential equations; derivation of the differential equation; use of vector and Tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics. Prerequisites: MATH 3323 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5303. History of Mathematics.

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for M.S. degree. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5304. Topics in Mathematics for the Secondary Teacher.

A study of the current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for M.S. degree. Prerequisite: A grade of C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5305. Advanced Course in Probability and Statistics.

Advanced topics in probability and statistics. May be repeated once with different emphasis for additional credit. Prerequisite: MATH 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5306. Ring Theory.

Prerequisite: A grade of at least a "C" in MATH 4307 or a grade of at least a "B" in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5307. Modern Algebra.

Topics in modern algebra. Material will be adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5311. Foundations of Differential Equations.

A critical study of the foundations of derivation equations, operator spaces, and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.

Prerequisite: A grade of at least a C in MATH 3373 and either 3380 or 5382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5312. Functions of a Complex Variable.

Modern developments in the field of a complex variable. Prerequisite: A grade of at least a C in MATH 3373; either 3380 or 5382; and 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5313. Field Theory.

Topics in field theory, separable extensions, and Galois Theory.

Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5314. Number Theory.

Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5317. Problems in Advanced Mathematics.

Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required. May be repeated with different emphasis. This course does not count toward any degree in the Department of Mathematics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships



**MATH 5319. The Theory of Integration.**

A course in the theory of integration with special emphasis on the Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5329. General Topology.**

Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, and the C-W complexes. Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5331. Metric Spaces.**

Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.

Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5336. Studies in Applied Mathematics.**

Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. May be repeated with different emphasis for additional credit. Prerequisites: Six hours of advanced mathematics pertinent to topic and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5340. Scientific Computation.**

This course will involve the analysis of algorithms from science and mathematics, and the implementation of these algorithms using a computer algebra system. Symbolic numerical and graphical techniques will be studied. Applications will be drawn from science, engineering, and mathematics. Prerequisite: MATH 3323 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**MATH 5345. Regression Analysis.**

This course introduces formulation and statistical methodologies for simple and multiple regression, assessment of model fit, model design, and criteria for selection of optimal regression models. Students will develop skills with the use of statistical packages and the writing of reports analyzing a variety of real-world data. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5350. Combinatorics.**

This course, covers permutations, combinations, Stirling numbers, chromatic numbers, Ramsey numbers, generating functions, Polya theory, Latin squares and random block design. Prerequisite: MATH 3398 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5355. Applied and Algorithmic Graph Theory.**

This course is designed to emphasize the close tie between the theoretical and algorithmic aspects. The topics may include basic concepts such as connectivity, trees, planarity, coloring of graphs, matchings, and networks. It also covers many algorithms such as Max-flow Min-cut algorithm, maximum matching algorithm, and optimization algorithms for facility location problems in networks. Prerequisite: MATH 5388 or MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5358. Applied Discrete Mathematics.**

Boolean algebra, counting techniques, discrete probability, graph theory, and related discrete mathematical structures that are commonly encountered in computer science. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5360. Mathematical Modeling.**

This course introduces the process and techniques of mathematical modeling. It covers a variety of application areas from the natural sciences. Emphasis is placed on deterministic systems, stochastic models, and diffusion. Prerequisite: MATH 3373, MATH 3323, and MATH 5301, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5373. Theory of Functions of Real Variables.**

This course will discuss those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5374. Numerical Linear Algebra.**

This course introduces tools that mathematical scientists use with vectors and matrices. Applications include least squares and eigenvalue problems, and systems of equations from applied mathematics. The stability of algorithms to perturbations are considered. Theory is balanced with numerically implementing algorithms, in particular for iterative methods for large, sparse systems. Prerequisite: MATH 3377 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5376A. Design and Analysis of Experiments.**

This course introduces fundamental concepts in the design of experiments, justification of linear models, randomization and principles of blocking. It also discusses the construction and analysis of basic designs including fractional replication, composite designs, factorial designs, and incomplete block designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter



**MATH 5376B. Analysis of Variance.**

This course introduces basic methods, one-way, two-way ANOVA procedures, and multifactor ANOVA designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5381. Foundations of Set Theory.**

A formal study of the theory of sets, relations, functions, finite and infinite sets, set operations and other selected topics. This course will also train the student in the understanding of mathematical logic and the writing of proofs. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5382. Foundation of Real Analysis.**

A course covering the foundations of mathematical analysis. Topics include: real numbers, sequences, series, and limits and continuity of functions. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5384. Geometric Approach to Abstract Algebra.**

Definitions and elementary properties of groups, rings, integral domains, fields and vector spaces with great emphasis on the rings of integers, rational numbers, complex numbers, polynomials, and the interplay between algebra and geometry. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5386. Knots and Surfaces, An Introduction to Low-Dimensional Topology.**

Knot polynomials and other knot invariants. The topological classification of surfaces and topological invariants of surfaces. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5388. Discrete Mathematics.**

This course covers topics from: basic and advanced techniques of counting, recurrence relations, discrete probability and statistics, and applications of graph theory. Prerequisites: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5390. Statistics.**

This course will cover not only some of the basic statistical ideas and techniques but also the mathematical and probabilistic underpinnings of these techniques with an emphasis on simulations and modeling. The planning, conducting, analysis, and reporting of experimental data will also be covered. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5392. Survey of Geometries.**

A study of topics in geometry including geometrical transformations, the geometry of fractals, projective geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5393. Numerical Optimization.**

This course focuses on optimization methods for a broad range of applications, such as engineering and applied sciences. Subjects are the basic theory of optimization, numerical algorithms to locate points satisfying optimality conditions and to analyze the convergence properties. Prerequisites: MATH 2472, MATH 3377 and MATH 3383, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Mathematics for Teacher Education (MTE)****MTE 5301E. Visual Models for Middle School Mathematics.**

This course uses visual models to motivate understanding of the fundamental concepts underlying middle school mathematics. Pedagogical techniques to engage middle school students will also be addressed including inquiry-based instructional methods utilizing these visual models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301F. Implementing New Mathematics Curriculum.**

In this course we will investigate the keys to successfully implementing new curriculum. Two main aspects considered are: 1) the mathematical content knowledge required for a new curriculum and 2) how to build a community of practice which provides support during the implementation process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301G. Mathematics for Teaching.**

A study of the current trends and topics found in the secondary school mathematics curriculum taught from an advance perspective. Course context will be flexible and topics will be selected on the basis of student needs and interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5302A. Quantitative Reasoning.**

This course covers current pedagogy, curriculum, and methods related specifically to the teaching of middle school mathematics. Some of the topics explored are curriculum theory, instructional theory, learning theory, problem solving, national and state standards and assessment, discovery learning, assessment methods, manipulative, and technology in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5311. Quantitative Reasoning.**

This course will focus on numerical reasoning and problem solving with particular attention being placed on strategies for solving problems, methods for mental computation and computational estimation, and algorithmic processes being taught in a studentcentered atmosphere where teachers are free to take risks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5313. Geometry and Measurement.**

This course will focus on using spatial reasoning to investigate the concepts of direction, orientation, shape and structure; using mathematical reasoning to develop and prove geometric relationships; using logical reasoning and proof in relation to the axiomatic structure of geometry; using measurement of geometry concepts to solve real-world problems. 5315 Algebraic Reasoning. (3-0) This course will focus on using algebraic reasoning to

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5315. Algebraic Reasoning.**

This course will focus on using algebraic reasoning to investigate patterns, make generalizations, formulate mathematical models, and make predications; using properties, graphs, and applications of relations and function to analyze, model and solve problems; and making connections among geometric, graphic, numeric and symbolic representation of functions and relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5317. Math Modeling.**

This course will focus on modeling problems, applying appropriate mathematical analysis and drawing conclusions from the analysis; solving problems recursively, using linear and non-linear functions and using geometry and discrete mathematics to solve problems in Science, Music, and Art. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5319. Concepts of Calculus.**

A first course in differential and integral calculus. The student will explore the slope of secant lines, average velocity, limit, instantaneous velocity, derivative, slope of a curve at a point, area under a graph, integrals, fundamental theorem of calculus, and applications. Prerequisite:

MTE 5317 or consent of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5321. Probability and Statistics.**

This course will deal with using graphical and numerical techniques to explore data, characterize patterns, and describe departures from patterns; designing experiments to solve problems; understanding the theory of probability and its relationship to sampling and statistical inference and its use in making and evaluating predication. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5323. Logic and Foundations of Mathematics.**

This course will consist of an introduction to fundamental mathematical structures and techniques of proof. Topics will include: logic, set theory, number theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisite: MTE 5313 and MTE 5319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Master of Education (M.Ed.), Major in Middle School Mathematics Teaching

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/msmt>.

### Degree Requirements

The master of education (M.Ed.) degree with a major in middle school mathematics teaching consists of 21 hours of mathematics for teacher education (MTE) classes and MATH 5303, plus 12 hours of curriculum and instruction (CI) classes in the required composite minor. Students must also take and pass a comprehensive examination.

### Course Work Requirements

#### Mathematics for Teacher Education Course Work

MTE 5311	Quantitative Reasoning	3
MTE 5313	Geometry and Measurement	3
MTE 5315	Algebraic Reasoning	3
MTE 5317	Math Modeling	3
MTE 5319	Concepts of Calculus	3
MTE 5321	Probability and Statistics	3
MTE 5323	Logic and Foundations of Mathematics	3
MATH 5303	History of Mathematics	3

#### Composite Minor Course Work

CI 5306	Evaluative Techniques for the Classroom Teacher	3
CI 5314	Human Growth and Development II	3
CI 5333	The Secondary Curriculum	3

CI 5370	Classroom Management, Discipline, and Legal Issues	3
Total Hours		36

Master's level courses in Mathematics: MATH (p. 1231), MTE (p. 1233)

## Courses Offered

### Mathematics (MATH)

#### MATH 5111. Graduate Assistant Training.

This course is concerned with techniques used in the teaching of mathematics. This course is required as a condition of employment for graduate teaching and instructional assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### MATH 5199B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5299B. Thesis.

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### MATH 5301. Partial Differential Equations.

Theory and application of partial differential equations; derivation of the differential equation; use of vector and Tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics. Prerequisites: MATH 3323 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5303. History of Mathematics.

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for M.S. degree. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5304. Topics in Mathematics for the Secondary Teacher.

A study of the current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for M.S. degree. Prerequisite: A grade of C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5305. Advanced Course in Probability and Statistics.

Advanced topics in probability and statistics. May be repeated once with different emphasis for additional credit. Prerequisite: MATH 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5306. Ring Theory.

Prerequisite: A grade of at least a "C" in MATH 4307 or a grade of at least a "B" in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5307. Modern Algebra.

Topics in modern algebra. Material will be adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5311. Foundations of Differential Equations.

A critical study of the foundations of derivation equations, operator spaces, and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged.

Prerequisite: A grade of at least a C in MATH 3373 and either 3380 or 5382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5312. Functions of a Complex Variable.

Modern developments in the field of a complex variable. Prerequisite: A grade of at least a C in MATH 3373; either 3380 or 5382; and 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5313. Field Theory.

Topics in field theory, separable extensions, and Galois Theory.

Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5314. Number Theory.

Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### MATH 5317. Problems in Advanced Mathematics.

Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required. May be repeated with different emphasis. This course does not count toward any degree in the Department of Mathematics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 5319. The Theory of Integration.**

A course in the theory of integration with special emphasis on the Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5329. General Topology.**

Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, and the C-W complexes. Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5331. Metric Spaces.**

Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.

Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5336. Studies in Applied Mathematics.**

Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. May be repeated with different emphasis for additional credit. Prerequisites: Six hours of advanced mathematics pertinent to topic and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5340. Scientific Computation.**

This course will involve the analysis of algorithms from science and mathematics, and the implementation of these algorithms using a computer algebra system. Symbolic numerical and graphical techniques will be studied. Applications will be drawn from science, engineering, and mathematics. Prerequisite: MATH 3323 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**MATH 5345. Regression Analysis.**

This course introduces formulation and statistical methodologies for simple and multiple regression, assessment of model fit, model design, and criteria for selection of optimal regression models. Students will develop skills with the use of statistical packages and the writing of reports analyzing a variety of real-world data. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5350. Combinatorics.**

This course, covers permutations, combinations, Stirling numbers, chromatic numbers, Ramsey numbers, generating functions, Polya theory, Latin squares and random block design. Prerequisite: MATH 3398 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5355. Applied and Algorithmic Graph Theory.**

This course is designed to emphasize the close tie between the theoretical and algorithmic aspects. The topics may include basic concepts such as connectivity, trees, planarity, coloring of graphs, matchings, and networks. It also covers many algorithms such as Max-flow Min-cut algorithm, maximum matching algorithm, and optimization algorithms for facility location problems in networks. Prerequisite: MATH 5388 or MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5358. Applied Discrete Mathematics.**

Boolean algebra, counting techniques, discrete probability, graph theory, and related discrete mathematical structures that are commonly encountered in computer science. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5360. Mathematical Modeling.**

This course introduces the process and techniques of mathematical modeling. It covers a variety of application areas from the natural sciences. Emphasis is placed on deterministic systems, stochastic models, and diffusion. Prerequisite: MATH 3373, MATH 3323, and MATH 5301, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5373. Theory of Functions of Real Variables.**

This course will discuss those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5374. Numerical Linear Algebra.**

This course introduces tools that mathematical scientists use with vectors and matrices. Applications include least squares and eigenvalue problems, and systems of equations from applied mathematics. The stability of algorithms to perturbations are considered. Theory is balanced with numerically implementing algorithms, in particular for iterative methods for large, sparse systems. Prerequisite: MATH 3377 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MATH 5376A. Design and Analysis of Experiments.**

This course introduces fundamental concepts in the design of experiments, justification of linear models, randomization and principles of blocking. It also discusses the construction and analysis of basic designs including fractional replication, composite designs, factorial designs, and incomplete block designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter



**MATH 5376B. Analysis of Variance.**

This course introduces basic methods, one-way, two-way ANOVA procedures, and multifactor ANOVA designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5381. Foundations of Set Theory.**

A formal study of the theory of sets, relations, functions, finite and infinite sets, set operations and other selected topics. This course will also train the student in the understanding of mathematical logic and the writing of proofs. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5382. Foundation of Real Analysis.**

A course covering the foundations of mathematical analysis. Topics include: real numbers, sequences, series, and limits and continuity of functions. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5384. Geometric Approach to Abstract Algebra.**

Definitions and elementary properties of groups, rings, integral domains, fields and vector spaces with great emphasis on the rings of integers, rational numbers, complex numbers, polynomials, and the interplay between algebra and geometry. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5386. Knots and Surfaces, An Introduction to Low-Dimensional Topology.**

Knot polynomials and other knot invariants. The topological classification of surfaces and topological invariants of surfaces. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5388. Discrete Mathematics.**

This course covers topics from: basic and advanced techniques of counting, recurrence relations, discrete probability and statistics, and applications of graph theory. Prerequisites: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5390. Statistics.**

This course will cover not only some of the basic statistical ideas and techniques but also the mathematical and probabilistic underpinnings of these techniques with an emphasis on simulations and modeling. The planning, conducting, analysis, and reporting of experimental data will also be covered. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5392. Survey of Geometries.**

A study of topics in geometry including geometrical transformations, the geometry of fractals, projective geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5393. Numerical Optimization.**

This course focuses on optimization methods for a broad range of applications, such as engineering and applied sciences. Subjects are the basic theory of optimization, numerical algorithms to locate points satisfying optimality conditions and to analyze the convergence properties. Prerequisites: MATH 2472, MATH 3377 and MATH 3383, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**Mathematics for Teacher Education (MTE)****MTE 5301E. Visual Models for Middle School Mathematics.**

This course uses visual models to motivate understanding of the fundamental concepts underlying middle school mathematics. Pedagogical techniques to engage middle school students will also be addressed including inquiry-based instructional methods utilizing these visual models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301F. Implementing New Mathematics Curriculum.**

In this course we will investigate the keys to successfully implementing new curriculum. Two main aspects considered are: 1) the mathematical content knowledge required for a new curriculum and 2) how to build a community of practice which provides support during the implementation process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**MTE 5301G. Mathematics for Teaching.**

A study of the current trends and topics found in the secondary school mathematics curriculum taught from an advance perspective. Course context will be flexible and topics will be selected on the basis of student needs and interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5302A. Quantitative Reasoning.**

This course covers current pedagogy, curriculum, and methods related specifically to the teaching of middle school mathematics. Some of the topics explored are curriculum theory, instructional theory, learning theory, problem solving, national and state standards and assessment, discovery learning, assessment methods, manipulative, and technology in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5311. Quantitative Reasoning.**

This course will focus on numerical reasoning and problem solving with particular attention being placed on strategies for solving problems, methods for mental computation and computational estimation, and algorithmic processes being taught in a studentcentered atmosphere where teachers are free to take risks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5313. Geometry and Measurement.**

This course will focus on using spatial reasoning to investigate the concepts of direction, orientation, shape and structure; using mathematical reasoning to develop and prove geometric relationships; using logical reasoning and proof in relation to the axiomatic structure of geometry; using measurement of geometry concepts to solve real-world problems. 5315 Algebraic Reasoning. (3-0) This course will focus on using algebraic reasoning to

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5315. Algebraic Reasoning.**

This course will focus on using algebraic reasoning to investigate patterns, make generalizations, formulate mathematical models, and make predications; using properties, graphs, and applications of relations and function to analyze, model and solve problems; and making connections among geometric, graphic, numeric and symbolic representation of functions and relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5317. Math Modeling.**

This course will focus on modeling problems, applying appropriate mathematical analysis and drawing conclusions from the analysis; solving problems recursively, using linear and non-linear functions and using geometry and discrete mathematics to solve problems in Science, Music, and Art. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5319. Concepts of Calculus.**

A first course in differential and integral calculus. The student will explore the slope of secant lines, average velocity, limit, instantaneous velocity, derivative, slope of a curve at a point, area under a graph, integrals, fundamental theorem of calculus, and applications. Prerequisite:

MTE 5317 or consent of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5321. Probability and Statistics.**

This course will deal with using graphical and numerical techniques to explore data, characterize patterns, and describe departures from patterns; designing experiments to solve problems; understanding the theory of probability and its relationship to sampling and statistical inference and its use in making and evaluating predication. Prerequisite:

MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5323. Logic and Foundations of Mathematics.**

This course will consist of an introduction to fundamental mathematical structures and techniques of proof. Topics will include: logic, set theory, number theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisite: MTE 5313 and MTE 5319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Minor in Mathematics

The graduate minor in mathematics consists of 15 hours of advisor-approved MATH electives.

## Department of Physics

Roy F. Mitte Building Room 3240

T: 512.245.2131 F: 512.245.8233

<http://www.txstate.edu/physics/>

The Department of Physics strives to provide an exciting, rigorous educational environment that stresses relevant research, classroom learning, extensive use of peer instruction, and opportunities for work in industrial settings. Our faculty members conduct research in condensed matter physics, physics education, and historical astronomy.

Graduate students are involved in research as part of their degree plans. We have state-of-the-art research facilities, both within the department and shared user laboratories that provide meaningful experiences for our students, as well as dedicated faculty who work closely with students. Our master's graduates can continue to an innovative, multidisciplinary Ph.D. program in materials science, engineering, and commercialization offered at Texas State.

## Financial Assistance

Assistantships are available on a limited basis, and applications should be submitted by the posted priority application deadline. Inquiries and/or applications for assistantships should be mailed to:

Chair, Department of Physics

Texas State University

601 University Drive

San Marcos, Texas 78666

For more information about the availability of graduate scholarships and application deadlines, visit [http://www.gradcollege.txstate.edu/Prospect\\_Students/Pgms\\_Apps.html](http://www.gradcollege.txstate.edu/Prospect_Students/Pgms_Apps.html).

## Master of Science (M.S.)

- Major in Materials Physics (p. 1235)
- Major in Physics (p. 1238)

## Minors

- Materials Physics (p. 1242)
- Physics (p. 1242)

## Master of Science (M.S.), Major in Materials Physics

### Major Program

The materials physics program stresses experimental materials physics primarily related to the semiconductor and other high tech materials industries.

### Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/mphys.html>.

### Degree Requirements

The master of science (M.S.) degree in materials physics is a thesis-based program that stresses experimental materials physics primarily related to the semiconductor and other high tech materials industries. The program requires 35 graduate-level hours in materials physics.

### Course Work Requirements

#### Required Course Work

PHYS 5110	Seminar in Physics (taken twice)	2
PHYS 5320	Solid State Physics	3
PHYS 5324	Thin Film Materials Laboratory	3
PHYS 5398	Industry Internship	3

#### Materials Physics Electives

Choose 18 hours from the following: 18

PHYS 5312	Quantum Mechanics II	
PHYS 5314	Statistical Mechanics	
PHYS 5322	Semiconductor Device Microfabrication	
PHYS 5326	Electrical Characterization of Materials and Devices	
PHYS 5327	Semiconductor Device Physics	
PHYS 5328	Advance Solid State Physics	
PHYS 5329	Microelectronics Reliability Physics	
PHYS 5331	Electromagnetic Field Theory	
PHYS 5370	Problems in Advanced Physics	

#### Thesis Course Work

Choose a minimum 6 hours 6

PHYS 5199B	Thesis	
PHYS 5299B	Thesis	
PHYS 5399A	Thesis	

PHYS 5399B	Thesis	
PHYS 5599B	Thesis	
PHYS 5999B	Thesis	
Total Hours		35

## Research

Research is an important component of our graduate program. Faculty research interests include historical astronomy and astronomical computing, magnetic and semiconductor materials fabrication and analysis, thin film electrical characterization, scanning probe microscopy, and infrared spectroscopy. Major research instrumentation includes magnetron and dual ion beam sputtering vacuum systems, scanning electron microscope with energy dispersive spectroscopy capabilities, atomic force microscope, scanning tunneling microscope, thin film optical characterization equipment, high resolution x-ray analysis equipment, vibrating sample magnetometer, FTIR spectrometer, and a Molecular Beam Epitaxy thin film growth system. For the latest on research interests and activities, visit our website: <http://www.txstate.edu/physics/>.

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary

discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the

personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Physics: PHYS

## Courses Offered

### Physics (PHYS)

#### PHYS 5100. Professional Development.

This course covers topics related to teaching, research, and employment responsibilities. The completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit, is repeatable with different emphasis, and is graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### PHYS 5110. Seminar in Physics.

A course designed to acquaint the graduate student with current research areas in physics. May be repeated twice for total of three semester hour's credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PHYS 5195. Fundamentals of Research.

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### PHYS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### PHYS 5295. Fundamentals of Research.

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**2 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### PHYS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5301. Classical Mechanics.**

This course discusses the fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. This is a graduate leveling course and does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5302. Electricity and Magnetism.**

An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magneto static energy, and magnetic properties of matter. This is a graduate leveling course in Electricity and Magnetism (stacked with PHYS 4310). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5303. Quantum Mechanics.**

An introductory course on quantum mechanics. Hamiltonian operator and Schroedinger equation, harmonic oscillator, matrix formulation of quantum mechanics, uncertainty principle, potential barrier problems, and the hydrogen atom. This is a graduate leveling course in Quantum Mechanics (stacked with PHYS 4312). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5312. Quantum Mechanics II.**

A study of quantum mechanics including combination of two or more quantum mechanical systems, addition of angular momentum, time independent perturbation theory, and time dependent perturbation theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5313. Mathematical Methods of Physics.**

This course is a survey of mathematical methods of physics as they apply to areas in classical mechanics, quantum mechanics, electrodynamics, and nuclear physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5314. Statistical Mechanics.**

A study of statistical mechanics including a brief review of equilibrium thermodynamics, fundamentals of statistical mechanics, transport processes, fluctuations from equilibrium, phase transitions and critical phenomena, and quantum fluids

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5320. Solid State Physics.**

A study of electronic properties of materials using classical and quantum mechanical models, simple band theory of a solid and some device. Also included is an introduction to band theory applied to other properties of solids such as magnetism, dielectric functions, transport properties, and superconductivity. Prerequisites: PHYS 5312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5322. Semiconductor Device Microfabrication.**

An in-depth overview of the physics and technology of VLSI and ULSI silicon semiconductor device microfabrication. Topics including electronic material preparation, thin film growth, silicon oxidation and etching, lithography processing, impurity diffusion, ion implantation and yield analysis will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5324. Thin Film Materials Laboratory.**

An intensive laboratory introduction to the physics and materials fabrication and characterization. At the discretion of the instructor, laboratory projects introducing techniques such as sputtering, furnace/oven preparation, scanning probe microscopy, scanning electron microscopy, energy dispersive spectroscopy, four point probe transport methods, magnetometry and x-ray analysis may be offered. This course is preparatory for students seeking to apply for an experimental materials physics master's thesis project. This course may be repeated with permission from the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5326. Electrical Characterization of Materials and Devices.**

A laboratory/lecture course introducing electric characterization methods important to semiconductor materials and devices. Various measurement techniques and methods will be reviewed. Students will learn to work with industrial equipment. Prerequisite: PHYS 2425

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5327. Semiconductor Device Physics.**

The application of solid state physics for describing important examples of thin film device operation with a special emphasis on semiconductor devices. Additional topics may include photon and phonon effects on electronic properties, quantum phenomena, many body effects in solids, carrier transport properties, micro-electromechanical systems, and materials interface issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5328. Advance Solid State Physics.**

Review of models of a solid and energy band theory. Additional topics may include interaction of electromagnetic waves with solids, lattice vibrations and phonons, many body effects in solids, device physics, quantum phenomena, carrier transport properties, current device configurations, and materials interface problems. Prerequisite: PHYS 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5329. Microelectronics Reliability Physics.**

An introduction to the physical mechanisms governing the important failure modes of semiconductor integrated circuit devices and other emerging thin film devices. The application of materials physics characterization techniques for detecting the signatures of these failure mechanisms will also be reviewed. Prerequisites: PHYS 5324 and PHYS 5328, or instructor permission

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**PHYS 5331. Electromagnetic Field Theory.**

Introduction to electrodynamics at the graduate level. Topics include applications of special functions to problems in electrostatics and magnetostatics, time varying fields, Maxwell's equations, electromagnetic energy, Maxwell's stress tensor, radiation, and special theory of relativity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5340. Advanced Dynamics.**

Classical mechanics at an advanced level. Topics covered may include special relativity in classical mechanics, Hamilton equation of motion, canonical transformations, and Hamilton-Jacobi theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5350A. Thin Film Photovoltaic Devices.**

This course is a survey of the Physics of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, and losses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350B. Relativity.**

This course includes a review of Special Relativity, an introduction to the mathematics of tensor calculus and differential geometry, and such topics from General Relativity as the Schwarzschild solution and black holes, tests of General Relativity, cosmological models, and applications of relativity in the Global Positioning System (GPS)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350C. Characterization of Materials.**

This course covers skills and knowledge required for microscopy methods including optical microscopy, scanning electron microscopy, scanning tunneling electron microscopy, atomic force microscopy, and confocal microscopy. It covers x-ray and neutron diffraction techniques including structure analysis, powder and glancing angle diffraction, pole figure, texture analysis, and small angle scattering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350D. Cognitive Foundations of Physics Education Research.**

This course is an introduction to research methods and theories in physics education research. Topics include conceptual metaphor and blending, cognitive linguistics, dual-process theory, and historical issues from the intellectual development of physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5370. Problems in Advanced Physics.**

Open to graduate students on an individual basis by arrangement with the Department of Physics. May be repeated with prior approval of the department

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5395. Fundamentals of Research.**

Course is available to graduate students only at the invitation of the department. May be repeated with prior approval of the department

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5398. Industry Internship.**

Supervised work experience in an appropriate high tech industry. Students will be required to keep a daily journal and make a final presentation (both written and oral) describing their accomplishments.

Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in PHYS 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5404. Experimental Methods.**

Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**PHYS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Master of Science (M.S.), Major in Physics

### Admission Policy

For information regarding admission application requirements and procedures, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/phys.html>.

### Degree Requirements

The Department of Physics offers an especially strong opportunity for thesis research in experimental solid state and materials physics.



## Course Work Requirements

### Non-thesis Options

The 36-hour M.S. degree in physics with no minor consists of:

PHYS 5312	Quantum Mechanics II	3
PHYS 5331	Electromagnetic Field Theory	3
Advisor Approved Electives		30
Total Hours		36

The 36-hour M.S. degree in physics with a minor from the College of Science and Engineering consists of:

PHYS 5312	Quantum Mechanics II	3
PHYS 5331	Electromagnetic Field Theory	3
Advisor Approved Electives		21
Minor Course Work (Choose an approved 9-hour minor)		9
Total Hours		36

### Thesis Options

The 30-hour, thesis-based M.S. degree in physics with no minor requires:

PHYS 5312	Quantum Mechanics II	3
PHYS 5331	Electromagnetic Field Theory	3
Advisor Approved Electives		18
Thesis Course Work (Choose a minimum 6 hours)		6
PHYS 5199B	Thesis	
PHYS 5299B	Thesis	
PHYS 5399A	Thesis	
PHYS 5399B	Thesis	
PHYS 5599B	Thesis	
PHYS 5999B	Thesis	
Total Hours		30

The 30-hour, thesis-based M.S. degree in physics with a 9-hour minor from the College of Science and Engineering requires:

PHYS 5312	Quantum Mechanics II	3
PHYS 5331	Electromagnetic Field Theory	3
Advisor Approved Electives		9
Minor Course Work (Choose an approved 9-hour minor)		9
Thesis Course Work (Choose a minimum 6 hours)		6
PHYS 5199B	Thesis	
PHYS 5299B	Thesis	
PHYS 5399A	Thesis	
PHYS 5399B	Thesis	
PHYS 5599B	Thesis	
PHYS 5999B	Thesis	
Total Hours		30

If a student elects to follow the thesis option for the degree, a committee to direct the written thesis will be established. The thesis must demonstrate the student's capability for research and independent thought. Preparation of the thesis must be in conformity with the *Graduate College Guide to Preparing and Submitting a Thesis or Dissertation*. The thesis handbook may be accessed at [http://www.gradcollege.txstate.edu/docs/Thesis\\_Diss\\_Guide.pdf](http://www.gradcollege.txstate.edu/docs/Thesis_Diss_Guide.pdf).

## Thesis Proposal

The student must submit an official Master's Thesis Proposal form and proposal to his or her thesis committee. Thesis proposals vary by department and discipline. Please see your department for proposal guidelines and requirements. The required thesis proposal form may be obtained from The Graduate College at <http://www.gradcollege.txstate.edu/gcforms.html>. After signing the form and obtaining committee members' signatures, graduate advisor's signature (if required by the program), and the department chair's signature, the student must submit the thesis proposal form with one copy of the proposal attached to the dean of The Graduate College for approval before proceeding with research on the thesis. If the thesis research involves human subjects, the student must obtain exemption or approval from the Texas State Institutional Review Board prior to submitting the proposal form to The Graduate College. If the thesis research involves vertebrate animals, the proposal form must include the Texas State IACUC approval code. It is recommended the thesis proposal form be submitted to the dean of The Graduate College by the end of the student's enrollment in 5399A.

## Thesis Committee

The thesis committee must be composed of a minimum of three approved graduate faculty members.

## Thesis Enrollment and Credit

The completion of a minimum of six hours of thesis enrollment is required. Enrollment for the thesis will be in course number 5399A for a student's initial thesis enrollment and a thesis B course for each subsequent thesis enrollment in the field in which the subject matter of the thesis falls, e.g., PS 5399A and PS 5399B. Preliminary discussions regarding the selection of a topic and assignment to a research supervisor will not require enrollment for the thesis course.

**A student will be required to enroll in and pay the fee for at least one hour of the thesis course during any term in which the student will receive thesis supervision or guidance and/or in which the student is using university resources.** Failure to register for the thesis course during a term in which supervision is received may result in postponement of graduation. After initial enrollment in 5399A, the student will continue to enroll in a thesis B course as long as it takes to complete the thesis. In the rare case when a student has not previously enrolled in thesis and plans to work on and complete the thesis in one term, the student will enroll in both 5399A and 5399B. The only grades assigned for thesis courses are PR (progress), CR (credit), W (withdrew), and F (failing). If acceptable progress is not being made in a thesis course, the instructor may issue a grade of F. If the student is making acceptable progress, a grade of PR is assigned until the thesis is completed. The minimum number of hours of thesis credit ("CR") will be awarded only after the thesis is filed in the Alkek Library and the librarian has electronically returned the thesis card to the office of The Graduate College.

A student who has selected the thesis option must be registered for the thesis course during the term or Summer I (during summer the thesis course runs ten weeks for both sessions) in which the degree will be conferred.

## Fee Reduction

A master's degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer

to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

## Thesis Deadlines and Approval Process

Thesis deadlines are posted at the following web page: [http://www.gradcollege.txstate.edu/Thes-Diss\\_Info/T-D\\_Deadlines.html](http://www.gradcollege.txstate.edu/Thes-Diss_Info/T-D_Deadlines.html). The completed thesis must be submitted to the chair of the thesis committee no later than 41 days before the date of the commencement at which the degree is to be conferred.

The following must be submitted to the office of The Graduate College no later than 24 days, not counting weekends or holidays, before the date of commencement at which the degree is to be conferred (see The Graduate College webpage for specific deadlines):

1. The Thesis/Dissertation Committee Approval form bearing original signatures of the student and all committee members.
2. One (1) copy of the thesis in final form, approved by all committee members, on standard paper (Hard-copy Submission Option) or PDF of the thesis in final form, approved by all committee members, uploaded in the on-line Vireo submission system (Vireo On-line Submission Option).

After the dean of The Graduate College approves the thesis, the process is as follows:

1. For the Vireo On-line Submission Option:
  - a. No copies are required to be submitted to the Alkek Library. However, Alkek will bind copies submitted that the student wants bound for personal use. Personal copies are not required to be printed on archival quality paper. The student will take the personal copies to the Alkek Library and pay the binding fee for personal copies.

Master's level courses in Physics: PHYS

## Courses Offered

### Physics (PHYS)

#### PHYS 5100. Professional Development.

This course covers topics related to teaching, research, and employment responsibilities. The completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit, is repeatable with different emphasis, and is graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

#### PHYS 5110. Seminar in Physics.

A course designed to acquaint the graduate student with current research areas in physics. May be repeated twice for total of three semester hour's credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

#### PHYS 5195. Fundamentals of Research.

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### PHYS 5199B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### PHYS 5295. Fundamentals of Research.

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**2 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

#### PHYS 5299B. Thesis.

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

#### PHYS 5301. Classical Mechanics.

This course discusses the fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. This is a graduate leveling course and does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

#### PHYS 5302. Electricity and Magnetism.

An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magneto static energy, and magnetic properties of matter. This is a graduate leveling course in Electricity and Magnetism (stacked with PHYS 4310). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5303. Quantum Mechanics.**

An introductory course on quantum mechanics. Hamiltonian operator and Schroedinger equation, harmonic oscillator, matrix formulation of quantum mechanics, uncertainty principle, potential barrier problems, and the hydrogen atom. This is a graduate leveling course in Quantum Mechanics (stacked with PHYS 4312). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5312. Quantum Mechanics II.**

A study of quantum mechanics including combination of two or more quantum mechanical systems, addition of angular momentum, time independent perturbation theory, and time dependent perturbation theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5313. Mathematical Methods of Physics.**

This course is a survey of mathematical methods of physics as they apply to areas in classical mechanics, quantum mechanics, electrodynamics, and nuclear physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5314. Statistical Mechanics.**

A study of statistical mechanics including a brief review of equilibrium thermodynamics, fundamentals of statistical mechanics, transport processes, fluctuations from equilibrium, phase transitions and critical phenomena, and quantum fluids

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5320. Solid State Physics.**

A study of electronic properties of materials using classical and quantum mechanical models, simple band theory of a solid and some device. Also included is an introduction to band theory applied to other properties of solids such as magnetism, dielectric functions, transport properties, and superconductivity. Prerequisites: PHYS 5312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5322. Semiconductor Device Microfabrication.**

An in-depth overview of the physics and technology of VLSI and ULSI silicon semiconductor device microfabrication. Topics including electronic material preparation, thin film growth, silicon oxidation and etching, lithography processing, impurity diffusion, ion implantation and yield analysis will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5324. Thin Film Materials Laboratory.**

An intensive laboratory introduction to the physics and materials fabrication and characterization. At the discretion of the instructor, laboratory projects introducing techniques such as sputtering, furnace/oven preparation, scanning probe microscopy, scanning electron microscopy, energy dispersive spectroscopy, four point probe transport methods, magnetometry and x-ray analysis may be offered. This course is preparatory for students seeking to apply for an experimental materials physics master's thesis project. This course may be repeated with permission from the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5326. Electrical Characterization of Materials and Devices.**

A laboratory/lecture course introducing electric characterization methods important to semiconductor materials and devices. Various measurement techniques and methods will be reviewed. Students will learn to work with industrial equipment. Prerequisite: PHYS 2425

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5327. Semiconductor Device Physics.**

The application of solid state physics for describing important examples of thin film device operation with a special emphasis on semiconductor devices. Additional topics may include photon and phonon effects on electronic properties, quantum phenomena, many body effects in solids, carrier transport properties, micro-electromechanical systems, and materials interface issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5328. Advance Solid State Physics.**

Review of models of a solid and energy band theory. Additional topics may include interaction of electromagnetic waves with solids, lattice vibrations and phonons, many body effects in solids, device physics, quantum phenomena, carrier transport properties, current device configurations, and materials interface problems. Prerequisite: PHYS 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5329. Microelectronics Reliability Physics.**

An introduction to the physical mechanisms governing the important failure modes of semiconductor integrated circuit devices and other emerging thin film devices. The application of materials physics characterization techniques for detecting the signatures of these failure mechanisms will also be reviewed. Prerequisites: PHYS 5324 and PHYS 5328, or instructor permission

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5331. Electromagnetic Field Theory.**

Introduction to electrodynamics at the graduate level. Topics include applications of special functions to problems in electrostatics and magnetostatics, time varying fields, Maxwell's equations, electromagnetic energy, Maxwell's stress tensor, radiation, and special theory of relativity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5340. Advanced Dynamics.**

Classical mechanics at an advanced level. Topics covered may include special relativity in classical mechanics, Hamilton equation of motion, canonical transformations, and Hamilton-Jacobi theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5350A. Thin Film Photovoltaic Devices.**

This course is a survey of the Physics of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, and losses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350B. Relativity.**

This course includes a review of Special Relativity, an introduction to the mathematics of tensor calculus and differential geometry, and such topics from General Relativity as the Schwarzschild solution and black holes, tests of General Relativity, cosmological models, and applications of relativity in the Global Positioning System (GPS)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**PHYS 5350C. Characterization of Materials.**

This course covers skills and knowledge required for microscopy methods including optical microscopy, scanning electron microscopy, scanning tunneling electron microscopy, atomic force microscopy, and confocal microscopy. It covers x-ray and neutron diffraction techniques including structure analysis, powder and glancing angle diffraction, pole figure, texture analysis, and small angle scattering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**PHYS 5350D. Cognitive Foundations of Physics Education Research.**

This course is an introduction to research methods and theories in physics education research. Topics include conceptual metaphor and blending, cognitive linguistics, dual-process theory, and historical issues from the intellectual development of physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**PHYS 5370. Problems in Advanced Physics.**

Open to graduate students on an individual basis by arrangement with the Department of Physics. May be repeated with prior approval of the department

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5395. Fundamentals of Research.**

Course is available to graduate students only at the invitation of the department. May be repeated with prior approval of the department

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5398. Industry Internship.**

Supervised work experience in an appropriate high tech industry. Students will be required to keep a daily journal and make a final presentation (both written and oral) describing their accomplishments. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in PHYS 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5404. Experimental Methods.**

Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**PHYS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Minor in Materials Physics

Choose 2 classes from the following:

6

PHYS 5320	Solid State Physics	
PHYS 5322	Semiconductor Device Microfabrication	
PHYS 5324	Thin Film Materials Laboratory	
PHYS 5326	Electrical Characterization of Materials and Devices	
PHYS 5327	Semiconductor Device Physics	
PHYS 5328	Advance Solid State Physics	
PHYS 5329	Microelectronics Reliability Physics	
Additional Graduate Advisor-approved Elective Course		3
Total Hours		9

## Minor in Physics

The graduate minor in physics requires 6 hours of advisor-approved electives.

## Doctor of Philosophy (Ph.D.), Materials Science, Engineering, and Commercialization

### Ph.D. Program

The College of Science and Engineering at Texas State capitalized on existing initiatives to create a cutting-edge interdisciplinary materials science, engineering, and commercialization doctoral program. The program contributes to the research, development, and validation of materials to be used in the next generation of electronics, medicines, plastics, sensors, infrastructure, and renewable energy. In addition to receiving departmental-level support, these academic and research capabilities are supported by an institutional 'top-to-bottom'



commercialization platform. Coupling commercialization with science and engineering, the planned curriculum will infuse an understanding of intellectual property law, skills in business planning, competency in transforming innovations from the lab to commercial production, and the ability to organize and lead interdisciplinary research teams. Therefore, our goal is educate the next generation of scientists and engineers who will perform interdisciplinary research and will emerge as effective entrepreneurial leaders in the advancement of high tech 21st century global discovery and innovation.

Courses may be offered in the evenings for the convenience of working professionals when necessary. Students are classified as either full-time (minimum of nine hours per term) or part-time. All students are required to initiate, complete, present, and publish original research.

Each student develops an appropriate degree plan to meet their career and academic goals. The degree plan will include a mix of theoretical, analytical, and elective courses that will prepare students to work independently and in multidisciplinary teams.

## Educational Goal

The central educational goal of the Ph.D. program in materials science, engineering, and commercialization at Texas State is to prepare doctoral students with

- technical skills necessary to conduct high quality research,
- an orientation toward interdisciplinary research,
- a set of business tools and knowledge of business practice, and
- technical project and business management skills.

Graduates from the program will be equipped with:

- Technical skills to conduct high quality research. The program is designed to have students plan and carry out cutting edge research in materials science that demonstrates the ability to think through complex problems and arrive at solutions. This goal is supported by a rigorous set of technically oriented course work that will equip students with the fundamental science knowledge necessary to conduct research. The student will also, in consultation with his research advisor and dissertation committee, formulate a research project and produce a proposal for carrying out the research.
- The ability to conduct research across scientific and engineering disciplines. Breakthroughs occur when scientists from a variety of disciplines either individually or collaboratively work on important interdisciplinary and multidisciplinary problems. Therefore, we need a new generation of scientists with both rigorous disciplinary training and the ability to communicate and work easily across disciplines. .
- A set of business tools and knowledge of business practice. Equipping our graduates with the business skills necessary to become entrepreneurs or leaders in industry is a central goal of the program. This educational goal is supported by the core courses in practical and leadership skills in commercialization and entrepreneurship and other elements dispersed throughout the program. These elements include a one-week intensive workshop to be completed in the summer prior to beginning the program. This introductory bootcamp will outline basic aspects of business and commercialization, and equip students with a common language and basic toolkit. Also a second one-week entrepreneur boot camp will be required after the student's first year in the program. In addition, two of the candidacy requirements solidify business skills. The student will produce, present, and defend a full business plan for a start-

up company. The student will write a Small Business Innovation Research/Small Business Technology Transfer Research (SBIR/STTR) proposal. If appropriate, the student will be provided the opportunity to work with a small business on the proposal, and to submit the final document to a funding agency. The students will be further encouraged to submit their business plan to the Texas State Business Plan Competition in an oral presentation before a panel of angel investors, venture capitalists and business owners. In addition, the weekly Commercialization Forum exposes students to successful entrepreneurs and business leaders. This Commercialization Forum will be the venue for oral defense of the student business plans. These requirements will ensure that the student has developed the business skills necessary to succeed.

- Technical project and business management skills. The ability to manage complex technical projects and businesses is an additional skill that is core to this program. This goal is certainly supported by the core courses. In addition the Commercialization Forum will regularly expose the students to examples of good project management and cases of what not to do in managing projects or businesses. The ability of the student to manage projects can be assessed to some degree by how they manage the business plan, SBIR/STTR proposal, and the implementation of the proposed research plan.

## Admission Policy

For information regarding admission application requirements and deadlines, please visit The Graduate College website at <http://www.gradcollege.txstate.edu/msec.html> (<http://www.gradcollege.txstate.edu/msec.html>).

## Financial Assistance

Assistantships and scholarships are available to qualified applicants. Doctoral instructional assistantships and teaching assistantships are offered on a competitive basis to full-time students enrolled in the materials science, engineering, and commercialization Ph.D. program. An offer of financial support will normally be made at the time that a student is accepted into the program. The office of The Graduate College can provide further information regarding scholarships.

## Course Work

### Degree Audit

Each Ph.D. student is issued a preliminary degree audit by The Graduate College which should be used to plan the student's course of study. In the first term of enrollment, students should review the degree audit in consultation with their supervising professor and the program director.

With admission into the doctoral program, **it is expected that students will pursue their course work and research activities in an efficient and timely manner.** If it is determined that a student is not making adequate progress toward completion of the doctoral degree requirements, consultations will be undertaken between the student, their Ph.D. advisor and the program director to develop a remediation plan to revise the student's program of study or research. Failure to successfully remedy documented deficiencies will result in termination of the student's enrollment in the doctoral program at the discretion of the program director. Students removed from the doctoral program in this manner may appeal to the dean of The Graduate College for reinstatement in the program within one academic year.



## Course Work Requirements

The Ph.D. in materials science, engineering, and commercialization requires students to complete, at minimum, 55 credit hours. Doctoral students selected for teaching assistantships will additionally be required to enroll in MSEC 7100 Doctoral Assistant Development during the first three terms that they teach classes.

Each student will develop a degree plan, in consultation initially with the doctoral program director and after selection, their Ph.D. advisor and committee, who identifies the appropriate doctoral prescribed electives necessary for achieving the degree. Students must complete 37 credits prior to taking a three-part Advancement to Candidacy Comprehensive Examination. The exam will consist of the following parts: SBIR/STTR Grant Proposal, Business Plan, and Oral Examination.

### Materials Science, Engineering, and Commercialization Ph.D. Program Course Requirements

Doctoral Core	22
Doctoral Prescribed Electives	15
Dissertation (minimum)	18
<b>Total Hours</b>	<b>55</b>

#### Core Courses

MSEC 7101	Commercialization Forum (Taken 4 times)	4
MSEC 7102	MSEC Seminar (Taken 4 times)	4
MSEC 7301	Practical Skills in Commercialization and Entrepreneurship	3
MSEC 7302	Leadership Skills in Commercialization and Entrepreneurship	3
MSEC 7401	Fundamental Materials Science and Engineering	4
MSEC 7402	Advanced Materials Science and Engineering Concepts	4

#### Prescribed Electives

Select 15 hours from the following:	15
MSEC 7103	Research in Materials Science, Engineering, and Commercialization
MSEC 7201	Principles of Technical Project Management
MSEC 7303	Research in Materials Science, Engineering, and Commercialization
MSEC 7304	Collaborative Research/Commercialization Experience
MSEC 7310	Nanoscale Systems and Devices
MSEC 7311	Materials Characterization
MSEC 7312	Thermodynamics and Kinetics for Material Scientists
MSEC 7315	Quantum Mechanics for Materials Scientists
MSEC 7320	Nanocomposites
MSEC 7330	Computational Materials Science
MSEC 7340	Biomaterials and Biosensors
MSEC 7350	Frontiers of Nanoelectronics
MSEC 7360	Nanomaterials Processing
MSEC 7370	Advanced Polymer Science
MSEC 7395A	Microwave & Power Device Physics and Materials
MSEC 7395B	Thin Film Photovoltaic Devices

#### Dissertation

Select minimum 18 hours from the following: 18

MSEC 7199	Dissertation
MSEC 7299	Dissertation
MSEC 7399	Dissertation
MSEC 7599	Dissertation
MSEC 7699	Dissertation
MSEC 7999	Dissertation

Total Hours 55

## Advancement to Candidacy

### Application for Advancement to Candidacy

Students can download the "Application for Advancement to Candidacy" from The Graduate College website or they can obtain a copy from the doctoral program director. The student should complete and sign the upper portion of the form and return it to the doctoral program director. Students must complete all required course work with the exception of dissertation credit hours and pass the Advancement to Candidacy Comprehensive Examination prior to applying for candidacy.

The Advancement to Candidacy Comprehensive Examination can be taken in the last semester in which the student completes all required course work (with the exception of dissertation credit hours).

When all requirements for admission to candidacy have been met (completion of boot camps or equivalents, all required course work (with the exception of dissertation credit hours), prescribed electives, successful performance on the comprehensive examination, approval of dissertation advisor/committee, and submission of an approved dissertation proposal), the doctoral program director will forward the Application for Advancement to Candidacy to the dean of The Graduate College for review and approval.

The dean of The Graduate College approves advancement to candidacy once all requirements are met.

Before advancement to candidacy can be approved, students are required to complete the following:

1. Completion of all required course work (with the exception of dissertation credit hours) toward the doctoral degree with a GPA of 3.0 or higher on a 4.0 scale with no grade earned below "B" on any graduate course work to be applied toward the Ph.D. degree.
2. Satisfactory performance on the comprehensive examination consisting of the following parts: SBIR/STTR Grant Proposal, Business Plan, and Oral Examination.
3. The student must select a dissertation advisor, and that advisor must be approved by the doctoral program director. The student also must select a dissertation committee comprised of three additional members of the MSEC doctoral faculty and at least one external member from outside the MSEC program or the university. Other committee compositions are possible but require the approval of the dissertation advisor and the doctoral program director.
4. The student must choose a topic with the approval of the student's dissertation advisor and committee.
5. The student will submit a title and a written proposal for the dissertation to the student's dissertation committee and successfully defend the proposal in an oral presentation with the dissertation committee. The proposal will include a statement of the problem to be studied, a discussion of the relevant literature, and the research method of the proposed dissertation topic.
6. The doctoral program director will make a recommendation to the graduate dean who makes the final decision on the student's

advancement to candidacy. The Graduate College will notify the student once the decision has been made.

### **Advancement to Candidacy Time Limit**

Students are expected to advance to candidacy at the end of two years after official enrollment in the program. All are required to have advanced to candidacy by the end of their third year in the program. Students are required to take the Advancement to Candidacy Comprehensive Examination no later than their fourth term in the program. Requests for a time extension must be submitted to the doctoral program director by the student with the concurrence of the Ph.D. research advisor and must be approved by The Graduate College. Non-traditional, part-time students may request extensions from the doctoral program director as long as they maintain a minimum GPA of 3.5 and are making consistent progress toward fulfilling their degree requirements. The doctoral executive council will review part-time students' requests for extensions on an individual, case-by-case basis.

No credit will be applied toward a student's doctoral degree for course work completed more than five years before the date on which the student is admitted to candidacy. This time limit applies to course credit earned at Texas State, as well as course credit transferred to Texas State from other accredited institutions.

### **Grade-Point Requirements for Advancement to Candidacy**

A minimum GPA of 3.0 on all course work undertaken as a doctoral student in the materials science, engineering, and commercialization program is required for admission to candidacy. No grade earned below "B" on any graduate course work may apply toward a Ph.D. degree at Texas State.

Incomplete grades must be cleared through the office of The Graduate College at least ten days before approval for advancement to candidacy will be granted.

### **Advancement to Candidacy Comprehensive Examination**

The Advancement to Candidacy Comprehensive Examination can be taken in the last semester in which the student completes all required course work (with the exception of dissertation credit hours).

Students will be required to pass a comprehensive examination that will assess the student's preparedness to carry out the proposed plan of dissertation research. Students will be required to take the Advancement to Candidacy Comprehensive Examination no later than their fourth term in the program, unless an extension has been approved by the doctoral program director. To be eligible to take the comprehensive examination, students must have a minimum GPA of 3.0 in all the core course work, including any course work that is transferred from another institution. The Advancement to Candidacy Comprehensive Examination will consist of two written components and one oral component. Each student will be required to take the Advancement to Candidacy Comprehensive Examination, which will be conducted by their Ph.D. dissertation committee. All committee members must be in attendance for candidacy examinations. Results of the Advancement to Candidacy Comprehensive Examination will be reported on the Doctoral Comprehensive Examination Report form and submitted to The Graduate College. The Advancement to Candidacy Comprehensive Examination will consist of the following three parts: SBIR/STTR Grant Proposal, Business Plan, and Oral Examination.

Should a student fail the exam, he or she will have the option of taking a second examination, which must be passed by the end of the following

term. Failure to pass this exam on two occasions will lead to the student's dismissal from the Ph.D. program.

### **Dissertation Proposal**

A dissertation proposal prepared by the student and approved by the student's Ph.D. advisor and a majority of the other members of the dissertation committee is a requirement for Advancement to Candidacy status. The proposal must outline the substance and scope of the dissertation research, present the methodology to be used, and survey the relevant literature. The dissertation proposal will be defended as part of the Oral segment of the Advancement to Candidacy Comprehensive Exam. The student's Ph.D. advisor and other dissertation committee members must indicate approval of the dissertation proposal on the "Ph.D. Dissertation Proposal" form. This form can be downloaded from The Graduate College website or it can be obtained from the doctoral program director. A final copy of the dissertation proposal, accompanied by the signed approval form, must be turned in to the doctoral program director, who will forward it to the dean of The Graduate College for review and final approval.

### **Recommendation for Advancement to Candidacy**

The dissertation committee recommends the applicant for Advancement to Candidacy by completing the "Advancement to Candidacy Examination Report" form which can be downloaded from The Graduate College website or obtained from the doctoral program director. The results of the Advancement to Candidacy Comprehensive Examination must be filed in the office of The Graduate College before the dean of The Graduate College gives final approval to candidacy. The doctoral program director is responsible for submitting this report to the office of The Graduate College.

### **Dissertation Research and Writing**

All doctoral students are required to complete a dissertation. The dissertation must represent an original contribution to scholarship based on independent investigation. Preparation of the dissertation should follow the guidelines in the current edition of the American Chemical Society (ACS) or American Institute of Physics (AIP) G37 style manual or in an appropriate professional journal in the designated field, as deemed acceptable by the dissertation committee. After being admitted to candidacy, students must be continuously enrolled for dissertation hours each fall and spring term until the defense of their dissertation. If a student is utilizing university resources toward completion of the dissertation in the summer (including faculty supervision or the use of university facilities), or if the student is graduating in the summer, they must be enrolled in at least one hour of dissertation credit for that term. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must complete a minimum of 18 semester hours of dissertation research credit.

The student must submit to The Graduate College the approved dissertation in electronic format for publication with the Alkek Library. The graduate dean must approve the dissertation.

### **Dissertation Enrollment Requirements**

After being admitted to candidacy, students must be continuously enrolled for dissertation hours each term until the defense of their dissertation. If a student is utilizing university resources toward completion of the dissertation in the summer (including faculty supervision or the use of university facilities), or if the student is graduating in the summer, they must be enrolled in at least one hour of

dissertation credit for that term. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must complete a minimum of 18 semester hours of dissertation research and writing credit.

### Dissertation Time Limit

Students are expected to complete the dissertation within two years after Advancement to Candidacy. Any exceptions to this time limit require the approval of the doctoral program director and the dean of The Graduate College. The doctoral program director will review each student annually to ascertain their progress in pursuing the degree and will consult with the student's Ph.D. research advisor and dissertation committee on this matter as appropriate.

### Dissertation Committee

The dissertation committee will be responsible for administering the Advancement to Candidacy Comprehensive Examination and will oversee the research progress of a doctoral student and the writing of the student's dissertation. The committee will consist of at least five members, including the student's Ph.D. research advisor, three other MSEC doctoral faculty and at least one external member from outside the MSEC program or the university. The student's Ph.D. research advisor will chair the committee. The student, doctoral program director, and the dean of The Graduate College will approve the composition of the dissertation committee. The Dissertation/Research Advisor form and the Dissertation Committee Request form must be completed to form the committee. These forms may be downloaded from The Graduate College's website.

Any changes to the dissertation committee must be submitted using the Dissertation Advisor/Committee Member Change Request form for approval to the dissertation committee chair, the doctoral program director, and the dean of The Graduate College. Changes must be submitted no later than 60 days before the dissertation defense.

The student is responsible for obtaining committee members' signatures on the Dissertation/Research Advisor Assignment form and the Dissertation Committee Request form, which can be downloaded from The Graduate College website.

### Committee Changes

Any changes to the dissertation committee must be submitted using the Dissertation Advisor/Committee Member Change Request form for approval to the dissertation committee chair, the doctoral program director, and the dean of The Graduate College. Changes must be submitted no later than 60 days before the dissertation defense.

The Research Advisor/Committee Member Change Request form may be downloaded from The Graduate College website or obtained from the doctoral program director.

### Dissertation Defense

The dissertation defense will not be scheduled until all other academic and program requirements for advancement to candidacy have been fulfilled. A complete draft of the dissertation will be given to the members of the dissertation committee with sufficient time for review, typically two months before the date of commencement during the term in which the student intends to graduate. After committee members have reviewed the draft with the student and provided comments, the student, in consultation with the Ph.D. research advisor, will incorporate the recommended changes into a new draft of the dissertation. When each

committee member is satisfied that the draft dissertation is defensible, the dissertation defense may be scheduled.

The dissertation defense will consist of two parts. The first part is a public presentation of the dissertation research. Notice of the defense presentation will be posted at least two weeks in advance. The second part of the defense will immediately follow the public presentation but will be restricted to the student's dissertation committee and entail an oral examination over the dissertation research. Approval of the dissertation requires positive votes from the student's Ph.D. research advisor and a majority of the remaining members of the dissertation committee. The Dissertation Defense Report form must be filed in The Graduate College before the dean of The Graduate College gives final approval to the dissertation. This form may be downloaded from The Graduate College website.

The student is expected to orally defend the dissertation in an announced public presentation within two years of the official date of being advanced to candidacy.

### Approval and Submission of the Dissertation

Following approval and signing of the Thesis/Dissertation Committee Approval form by the members of the dissertation committee, the student must submit one copy of the dissertation to the office of The Graduate College for final approval. Specific guidelines for approval and submission of the dissertation can be obtained from the office of The Graduate College. Dissertations must be submitted in electronic format.

### Fee Reduction

A master's or doctoral degree candidate for graduation may be eligible for a one-time fee reduction under V.T.C.A. Education Code, Section 54.054. Please refer to the section titled *Fee Reduction* in the *Additional Fees and Expenses* chapter of this catalog for more information.

Doctoral level courses in Materials Science, Engineering and Commercialization: MSEC

## Courses Offered

### Materials Science, Engineering and Commercialization (MSEC)

#### MSEC 7100. Doctoral Assistant Development.

The course is designed to equip the doctoral students with skills and an understanding of proper procedures to be effective teaching assistants. This course does not earn graduate degree credit, and is graded on a credit (CR), progress (PR), or no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

#### MSEC 7101. Commercialization Forum.

The course is a seminar series exposing students to commercialization issues. The series includes as speakers: successful entrepreneurs, businessmen, research directors, production and process control engineers, intellectual property and licensing experts, management consultants, and technology transfer specialists. Second year students will present business plans that they developed. Repeatable four times for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7102. MSEC Seminar.**

This course is an introduction to current topics through reading of scientific literature with presentations by guest lecturers as the basis for weekly discussions. Students participate by choosing current, high-quality research articles for discussion and will present at least one article during the semester. Repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7103. Research in Materials Science, Engineering, and Commercialization.**

This research course is for students in Materials Science, Engineering, and Commercialization who have not yet passed their candidacy exam, typically under supervision of the PhD Research Advisor. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable (with MSEC 7303 hours) for doctoral credit up to 6 hours

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7199. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7201. Principles of Technical Project Management.**

This course includes planning, budgeting, identification of risks and risk mitigation approaches, resource allocation, review of milestones and schedules, and evaluating projects to measure success. Responsibilities of project managers in the areas of problem solving, motivating and managing creative technical staff in project and matrix organizations will be included

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7299. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7301. Practical Skills in Commercialization and Entrepreneurship.**

This course is the first of a two course series to impart business and commercialization skills by producing a business plan. Key areas covered include intellectual property law, technology transfer and licensing strategies, business plan development, business finance strategies, management structures, project management methods, statistical quality and process control

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7302. Leadership Skills in Commercialization and Entrepreneurship.**

Leadership Skills in Commercialization and Entrepreneurship (3-0). This course is the second of a two course series to impart business and commercialization skills by producing a business plan. Key areas covered include intellectual property law, technology transfer and licensing strategies, business plan development, business finance strategies, management structures, project management methods, statistical quality and process control. Prerequisite: MSEC 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7303. Research in Materials Science, Engineering, and Commercialization.**

This research course is for students in Materials Science, Engineering, and Commercialization who have not yet passed their candidacy exam, typically under supervision of the PhD Research Advisor. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable (with MSEC 7103 hours) for doctoral credit up to 6 hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7304. Collaborative Research/Commercialization Experience.**

This course allows Ph.D. level graduate students to initiate, conduct and participate in a collaborative research or commercialization experience with graduate faculty in addition to research conducted under MSEC 7103, MSEC 7303, MSEC 7199 and MSEC 7399. This course recognizes the collaborative nature of the scientific and commercialization enterprise. Repeatable for doctoral credit up to 6 hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7310. Nanoscale Systems and Devices.**

This course is an in-depth treatment of physical phenomena in nanoscale structures, and consequences for electronic, photonic, mechanical and other types of devices. The course provides a strong background in devices with applications in nanoelectronics, biomedical systems, micro- and nanoscale manipulation, adaptive optics, and microfluidics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7311. Materials Characterization.**

This course covers skills and knowledge required for microscopy methods including transmission electron microscopy, scanning electron microscopy, scanning tunneling electron microscopy, atomic force microscopy, and confocal microscopy. It covers x-ray and neutron diffraction techniques including structure analysis, powder and glancing angle diffraction, pole figure, texture analysis, and small angle scattering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7312. Thermodynamics and Kinetics for Material Scientists.**

This course provides a solid understanding of thermodynamics and kinetics of materials, how the rules of thermodynamics and kinetics relate to real-world phenomena, such as phase transformations, phase diagrams, microstructural evolution, and how to use processing to produce a desired microstructure

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MSEC 7315. Quantum Mechanics for Materials Scientists.**

This course includes quantum-mechanical foundation for study of nanometer-scale materials, principles of quantum physics, stationary-states for one-dimensional potentials, symmetry considerations, interaction with the electromagnetic radiation, scattering, reaction rate theory, spectroscopy, chemical bonding and molecular orbital theory, solids, perturbation theory, and nuclear magnetic resonance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7320. Nanocomposites.**

Characteristics of nanoparticles utilized in nanocomposites, techniques for surface modification, methods for nanoparticle dispersion forming nanocomposites, types of nanocomposites, characteristics of nanocomposites, analytical methods for characterization of composites, and common applications will be discussed. Particular attention will be given to the science and theories explaining the unique behavior of nanocomposites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7330. Computational Materials Science.**

Application of computational techniques to molecular and atomic modeling of materials is discussed along with quantum mechanical modeling, density functional theory approaches, forcefield based molecular modeling, mesoscale modeling, energy minimization, molecular dynamics, vibrational spectra, crystal structures, phase equilibria, physical property prediction, and electronic structure related to magnetic and electrical properties. Prerequisite: CHEM 3340 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7340. Biomaterials and Biosensors.**

The course covers the growing field of biomaterials science including materials for prosthetics and implants, mimetic materials, biosensors, diagnostic devices, and drug delivery systems. Particular attention will be given to nanomaterials for diagnosis and treatment of diseases including targeted cancer treatments, drug delivery systems, and advanced imaging methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7350. Frontiers of Nanoelectronics.**

This course provides an introduction to the operating principles of nanoscale electronic and optical devices. The emphasis is on how leading edge nano-fabrication technology takes advantage of quantum mechanics of reduced sizes and dimensions. Specific examples of devices based on quantum wells, wires, dots and molecular electronics are given

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7360. Nanomaterials Processing.**

The course will cover various aspects of processing of nanomaterials from synthesis through incorporation into consumer goods. Specific topics to be covered in the synthesis of nanomaterials will include CVD, MBE, precipitation, spray drying, hydrothermal, electrochemical, mechanical grinding, phase separation, and shock wave

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7370. Advanced Polymer Science.**

Advanced topics in polymer science are discussed with a focus on high performance polymers such as high impact, conducting, shape memory, high temperature and the underlying phenomena that provide these unusual properties, and advanced polymer topic areas such as flame retardancy, barrier properties, dielectric properties, rheology, and fiber reinforced composites. Prerequisites: CHEM 5353 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7395A. Microwave & Power Device Physics and Materials.**

This course will develop an understanding of basic microwave and power device physics and technology and the advanced materials that are used in today's cutting-edge research & development. The primary focus will be wide bandgap semiconductor materials and devices, and their performance metric versus the industry standard Si-based devices.

Prerequisites: MSEC 7401, MSEC 7402 with a B or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7395B. Thin Film Photovoltaic Devices.**

This course is a survey of the Materials Science of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, III-V solar cells, and losses. Prerequisites: MSEC 7401, MSEC 7402 with a B or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7395C. Materials for Sustainable Energy.**

This course introduces principles and applications of sustainable energy materials used for energy generation, conversion, and storage. Topics of study include principles (thermodynamics, kinetics, transport phenomena, equivalent circuits, catalysis, and electrochemistry) and selection and performance criteria important for applications including batteries, supercapacitors, fuel cells, electrolyzers, dielectrics, biomass, and piezoelectrics. Prerequisites: MSEC 7401 and MSEC 7402 with grades of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7395D. Polymer Characterization and Processing.**

This course will cover the concepts critical to the characterization and processing of organic polymers. Topics critical to characterization will include molecular weight determination, thermo/mechanical characterization, X-ray scattering, and polymer spectroscopy. Processing topics will include polymer rheology, principles of polymer processing, solution processing, and extrusion. Prerequisites: MSEC 7370 or CHEM 5351 or CHEM 4351 with grades of B or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MSEC 7399. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Admission into candidacy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7401. Fundamental Materials Science and Engineering.**

Fundamental Materials Science and Engineering (4-0). Fundamentals of chemical kinetics, physical properties, and continuum mechanics will be discussed. Topics include electronic and atomic structure of solids, structure of crystalline materials, structural imperfections, fundamental thermodynamic and kinetic principles and equations for closed and open systems, statistical models, phase diagrams, diffusion, phase transformations, conservation laws, and continuum kinematics. Prerequisite: Three-week Business Boot Camp or equivalent and Corequisite: MSEC 7312 or equivalent

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7402. Advanced Materials Science and Engineering Concepts.**

Fundamentals of quantum mechanics, physics of solid state, and physical electronics and photonics for advanced materials will be discussed. Topics will include quantum basis for properties of solids, lattice vibration, free electron model for magnetism, semiconductors, nanostructures and mesoscopic phenomena, superconductivity, and recent advances in new types of materials. Corequisite: MSEC 7315 or equivalent

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7599. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7699. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Admission into candidacy

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7999. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Graduate Faculty

Aamot, Craig A, Lecturer, Music, M.M., Texas State University

Abate, Cassandra Ann, Assistant Professor, Theatre Dance, M.F.A., San Diego State University

Abramovitch, Amitai, Assistant Professor, Psychology, Ph.D., Tel Aviv University

Abreu Mendoza, Carlos, Assistant Professor, Modern Languages, Ph.D., Univ North Carolina at Chapel Hill

Acee, Taylor W, Associate Professor, Curriculum Instruction, Ph.D., University of Texas at Austin

Ackerson, Carla J, Clinical Lecturer, Social Work, M.S.W., University of Texas at Arlington

Adepoju, Omolola E, Assistant Professor, Health Administration, Ph.D., Texas AM University

Aguayo, Federico Macias, Assistant Professor, Engineering Technology, Ph.D., University of Texas at Austin

Agwuele, Augustine, Associate Professor, Anthropology, Ph.D., University of Texas at Austin

Ahn, Mira, Associate Professor, Family Consumer Sciences, Ph.D., Virginia Poly Inst State Univ

Aidman, Barry Joel, Assistant Professor, Coun, Ldr, Adult Ed Sch Psy, Ph.D., University of Texas at Austin

Alfaro, Edna C, Assistant Professor, Family Consumer Sciences, Ph.D., Arizona State University

Ali, Moonis, Professor, Computer Science, Ph.D., Aligarh Muslim University

Allen, Brian Sterling, Assistant Professor, Art Design, M.F.A., Bard College

Alley, Debbie Ruth, Chair - Professor, Theatre Dance, M.F.A., Illinois State University

Allison, Elizabeth A, Professor, English, Ph.D., University of South Florida

Allsup, Roxane Cuellar, Associate Professor, Curriculum Instruction, Ph.D., Texas AM University

Ameri, Farhad, Associate Professor, Engineering Technology, D.Eng., University of Michigan-Ann Arbor

Anderson, Audwin L, Associate Professor, Sociology, Ph.D., Texas AM University

- Angirasa, Aditi K, Professor, Agriculture, Ph.D., Texas AM University
- Angulo, Sarah K, Senior Lecturer, Psychology, Ph.D., University of Texas at Austin
- Archer, Richard L, Professor, Psychology, Ph.D., Duke University
- Armstrong, Sonya Lee, Associate Professor, Curriculum Instruction, Ed.D., Univ of Cincinnati Main Campus
- Arnio, Ashley Nichole, Assistant Professor, Criminal Justice, Ph.D., Florida State University
- Asbell, Stephanie Ames, Assistant Professor, Music, D.M.A., University of Texas at Austin
- Ash, Gwynne Ellen, Professor, Curriculum Instruction, Ph.D., University of Georgia
- Ashford, Shetay Nicole, Assistant Professor, Occ, Workforce, Ldrshp Stds, Ph.D., University of South Florida
- Asiabanpour, Bahram, Associate Professor, Engineering, Ph.D., University of Southern California
- Aslan, Semih, Assistant Professor, Engineering, Ph.D., Illinois Institute of Technology
- Assaf, Lori Czop, Professor, Curriculum Instruction, Ph.D., University of Texas at Austin
- Ausbrooks, Angela R, Associate Professor, Social Work, Ph.D., University of Texas at Austin
- Awoniyi, Stephen A, Associate Professor, Health Human Performance, Ph.D., Indiana University Bloomington
- Babcock, Jonathan P, Associate Professor, Music, D.M.A., University of Hartford
- Badrinarayanan, Vishag A, Associate Professor, Marketing, Ph.D., Texas Tech University
- Balanoff, Howard R, Professor, Political Science, D.Ed., Texas AM University
- Baldwin, Patricia Cafferty, Lecturer, Journalism Mass Comm, Ph.D., University of North Texas
- Ballinger, Thomas Justin, Assistant Professor, Geography, Ph.D., Kent State University
- Baltzly, Vaughn Bryan, Assistant Professor, Philosophy, Ph.D., Univ of Maryland College Park
- Balzhiser, Deborah Ann, Associate Professor, English, Ph.D., Illinois State University
- Bandy, Carroll L, Professor, Mathematics, Ph.D., University of Houston
- Banerjee, Suparno, Associate Professor, English, Ph.D., Louisiana State Univ AM College
- Banta, Marilyn R, Senior Lecturer, Biology, Ph.D., University of Nevada, Reno
- Barcenas Pardo, Alejandro, Assistant Professor, Philosophy, Ph.D., Univ of Hawaii at Manoa
- Bartz, Ezra J, Senior Lecturer, Music, D.M.A., University of Texas at Austin
- Batey, Andy H, Chair - Associate Professor, Engineering Technology, Ph.D., Univ of Maryland College Park
- Beale-Rosano-Rivaya, Yasmine C, Associate Professor, Modern Languages, Ph.D., Univ of California-Los Angeles
- Beall, Gary W, Associate Dean, College of Science and Engineering and Professor, Chemistry Biochemistry, Ph.D., Baylor University
- Beatty, Caroline C, Associate Professor, Music, D.M.A., University of Michigan-Ann Arbor
- Becerra, Enrique P, Associate Professor, Marketing, Ph.D., Florida Atlantic University
- Beck, Brandon Luciani, Lecturer, Curriculum Instruction, Ph.D., Texas State University
- Bell-Metereau, Rebecca L, Professor, English, Ph.D., Indiana University Bloomington
- Bellini, Brigitte Kathryn, Senior Lecturer, Music, M.M., New England Conservatory of Music
- Benavides, Elizabeth Ashley, Assistant Professor, Agriculture, Ph.D., Univ of Missouri-Columbia
- Benedikt, Amelie F, Senior Lecturer, Philosophy, Ph.D., University of Texas at Austin
- Bennett, Marion Morrison, Associate Professor, Coun, Ldr, Adult Ed Sch Psy, Ph.D., University of North Texas
- Benton, Amy D, Assistant Professor, Social Work, Ph.D., Univ of California, Berkeley
- Berlage, Nancy Kay, Assistant Professor, History, Ph.D., Johns Hopkins University
- Betancourt, Tania, Assistant Professor, Chemistry Biochemistry, Ph.D., University of Texas at Austin
- Bezner, Janet Rose, Associate Professor, Physical Therapy, D.P.T., Rocky Mtn Univ of Health Prof
- Bhardwaj, Vertica, Assistant Professor, Family Consumer Sciences, Ph.D., University of Tennessee
- Biediger-Friedman, Lesli M, Assistant Professor, Family Consumer Sciences, Ph.D., Texas Tech University
- Biggs, Mary Jo, Chair - Professor, Occ, Workforce, Ldrshp Stds, Ph.D., Texas AM University
- Billingsley, Glenna M, Assistant Professor, Curriculum Instruction, Ph.D., Texas State University
- Bird, Paula, Senior Lecturer, Music, M.M., Texas State University
- Bishop, Elizabeth A, Associate Professor, History, Ph.D., University of Chicago

Bishop, Jessica Lynn, Associate Professor, Mathematics, Ph.D., University of Texas at Austin

Bishop, Nicholas Joseph, Assistant Professor, Family Consumer Sciences, Ph.D., Arizona State University

Black, Stephen L, Associate Professor, Anthropology, Ph.D., Harvard University

Blair, John M, Professor, English, Ph.D., Tulane University

Blalock, Sarah Martin, Assistant Professor, Coun, Ldr, Adult Ed Sch Psy, Ph.D., University of North Texas

Blanchard-Boehm, Denise, Professor, Geography, Ph.D., University of Colorado Boulder

Blankenburg, Eric Lance, Senior Lecturer, English, M.F.A., Texas State University

Blue, Sarah A, Associate Professor, Geography, Ph.D., Univ of California-Los Angeles

Blunk, Elizabeth M, Associate Professor, Family Consumer Sciences, Ph.D., University of Texas at Austin

Boden-McGill, Carrie J, Professor, Occ, Workforce, Ldrshp Stds, Ph.D., Kansas State University

Boehm, Richard G, Professor - Endowed Chair, Geography, Ph.D., University of Texas at Austin

Bond, J Nathan, Professor, Curriculum Instruction, Ph.D., University of Texas at Austin

Bonner, Timothy H, Professor, Biology, Ph.D., Texas Tech University

Booth, Chad, Assistant Dean, College of Science and Engineering and Associate Professor, Chemistry Biochemistry, Ph.D., Univ of Southern Mississippi

Bos, Beth, Associate Professor, Curriculum Instruction, Ed.D., University of Houston

Boucher, Brenda K, Associate Professor, Physical Therapy, Ph.D., University of Texas at Austin

Boucher, Michael Lee, Assistant Professor, Curriculum Instruction, Ph.D., Indiana University Bloomington

Bousman, Charles B, Associate Dean, College of Liberal Arts and Professor, Anthropology, Ph.D., Southern Methodist University

Boutot, E Amanda, Associate Professor, Curriculum Instruction, Ph.D., University of Texas at Austin

Bower, Matthew Eugene, Lecturer, Philosophy, Ph.D., The University of Memphis

Bowers, Jessica Ree, Lecturer, Communication Disorders, M.S., Texas State University

Bowman, Scott W, Associate Professor, Criminal Justice, Ph.D., Arizona State University

Brennan, Mary C, Chair - Professor, History, Ph.D., Miami University

Brinckmeyer, Lynn, Professor, Music, Ph.D., Univ of Kansas Main Campus

Brittain, William J, Professor, Chemistry Biochemistry, Ph.D., California Inst of Technology

Brooks, Ann, Professor, Coun, Ldr, Adult Ed Sch Psy, Ed.D., Teachers College, Columbia Univ

Brooks, Maneka Deanna, Assistant Professor, Curriculum Instruction, Ph.D., Stanford University

Brooks, Matthew S, School Director-Assoc Professor, Health Administration, Ph.D., Univ of South Carolina Columbia

Brown, Christopher R, Associate Professor, Political Science, J.D., University of Texas at Austin

Brown, Laurie Davenport, Lecturer, Accounting, M. Acy., Texas State University

Brunson, Emily K, Assistant Professor, Anthropology, Ph.D., University of Washington

Bruntmeyer, Darlene Tichelle, Lecturer, Curriculum Instruction, M.Ed., Texas State University

Burgard, Karen Louise Boucher, Lecturer, Curriculum Instruction, Ph.D., Univ of Missouri Kansas City

Burke, Patricia Jean, Assistant Professor, Communication Studies, Ph.D., University of Arizona

Burnette, Ann E, Associate Professor, Communication Studies, Ph.D., Northwestern University

Burtscher, Martin, Professor, Computer Science, Ph.D., University of Colorado Boulder

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- Waite, Duncan, Professor, Coun, Ldr, Adult Ed Sch Psy, Ph.D., University of Oregon
- Waite, Susan F, Assistant Professor, Curriculum Instruction, Ed.D., University of Georgia
- Wakefield, Dexter Bernard, Assistant Professor, Agriculture, Ph.D., Purdue University Main Campus

- Walker, John L, Professor, Health Human Performance, Ed.D., University of Houston
- Walker, Ronald B, Professor - Endowed Chair, Chemistry Biochemistry, Ph.D., Florida State University
- Walter, Scott Thomas, Lecturer, Biology, Ph.D., Univ of Louisiana at Lafayette
- Wang, Tiankai, Associate Professor, Health Information Management, Ph.D., Rutgers State Univ New Brunswick
- Ward, Kenneth, Professor, Political Science, Ph.D., Columbia Univ City of New York
- Warms, Richard L, Professor, Anthropology, Ph.D., Syracuse University Main Campus
- Warnell, Katherine Rice, Assistant Professor, Psychology, Ph.D., Univ of Maryland College Park
- Warshauer, Hiroko K, Assistant Professor, Mathematics, Ph.D., University of Texas at Austin
- Warshauer, Max L, Regents' Professor, Mathematics, Ph.D., Louisiana State Univ AM College
- Watkins, Ann L, Chair - Professor, Accounting, Ph.D., Louisiana State Univ AM College
- Watson, Carolyn Narelle, Assistant Professor, Music, Ph.D., Univ of Sydney New Australia
- Watson, Dwight David, Associate Professor, History, Ph.D., University of Houston
- Watt, Toni Terling, Professor, Sociology, Ph.D., University of Texas at Austin
- Weaver, Russell Christopher, Assistant Professor, Geography, Ph.D., State Univ of NY Coll at Buffalo
- Weckerly, Floyd, Professor, Biology, Ph.D., The University of Memphis
- Weigum, Shannon E, Assistant Professor, Biology, Ph.D., University of Texas at Austin
- Weill, Susan, Associate Professor, Journalism Mass Comm, Ph.D., Univ of Southern Mississippi
- Wells, Jeremy Lee, Lecturer, Political Science, Ph.D., Louisiana State Univ AM College
- Welsh, Stewart C, Professor, Mathematics, Ph.D., University of Glasgow
- Wend-Walker, Graeme Alan, Associate Professor, English, Ph.D., Macquarie University
- Wendel, Renee M, Senior Lecturer, Communication Disorders, M.S., Texas State University
- Wendler, Linda F, Senior Lecturer, Curriculum Instruction, Ph.D., Univ of Minnesota-Twin Cities
- Werner, Patrice H, Associate Dean, College of Education and Associate Professor, Curriculum Instruction, Ph.D., University of North Texas
- Wescott, Daniel J, Associate Professor, Anthropology, Ph.D., University of Tennessee
- Westerberg, Carmen E, Assistant Professor, Psychology, Ph.D., Univ of Minnesota-Twin Cities
- Westerlund, Julie F, Associate Professor, Biology, Ph.D., University of Texas at Austin
- White, Alexander, Associate Professor, Mathematics, Ph.D., Michigan State University
- White, Garry, Associate Professor, Comp Info Sys Quant Mthd, Ph.D., University of Texas at Austin
- Whitten, Steven T, Associate Professor, Chemistry Biochemistry, Ph.D., Johns Hopkins University
- Wiegman, Isaac Thane, Lecturer, Philosophy, Ph.D., Washington Univ in St. Louis
- Wierschem, David C, Associate Professor, Comp Info Sys Quant Mthd, Ph.D., University of Texas at Dallas
- Wiley, David C, Professor, Health Human Performance, Ph.D., University of Texas at Austin
- Williams, Howard Earl, Lecturer, Criminal Justice, Ph.D., Texas State University
- Williams, James S, Associate Professor, Health Human Performance, Ph.D., Texas AM University
- Williams, M Lee, Univ Distinguished Professor Emeritus, Communication Studies, Ph.D., Univ of Oklahoma Norman Campus
- Williams, Miriam F, Professor, English, Ph.D., Texas Tech University
- Williams, Ronald Daniel, Associate Professor, Health Human Performance, Ph.D., The University of Alabama
- Williamson, Paula S, University Distinguished Professor, Biology, Ph.D., Univ of California-Santa Barbara
- Willson, Pamela Ann, Clinical Professor, Nursing, Ph.D., Texas Woman's University
- Wilson, Nancy A, Assistant Professor, English, Ph.D., Univ of Texas at San Antonio
- Wilson, Steven M, Professor, English, M.F.A., Wichita State University
- Winek, Gary J, Professor, Engineering Technology, Ph.D., Univ of Maryland College Park
- Winking, Keith R, Professor, Music, D.M.A., University of Texas at Austin
- Withrow, Brian L, Professor, Criminal Justice, Ph.D., Sam Houston State University
- Wivagg, Jonathan Robert, Senior Lecturer, Sociology, Ph.D., Baylor University
- Wood, Thomas B, Lecturer, Music, M.M., Southern Illinois U, Edwardsville
- Worthington, Oliver W, Senior Lecturer, Music, D.M.A., University of Texas at Austin

Wright, Maia J, Associate Professor, Art Design, M.F.A., School of the Art Inst of Chicago

Wright, Walter A, Associate Professor, Political Science, J.D., University of Houston

Yang, Guowei, Assistant Professor, Computer Science, Ph.D., University of Texas at Austin

Ybanez-Llorente, Kathy, Associate Professor, Coun, Ldr, Adult Ed Sch Psy, Ph.D., Texas AM Univ-Corpus Christi

Yi, Ha Chin, Associate Professor, Finance Economics, Ph.D., University of Kentucky

Yick, Joseph K, Professor, History, Ph.D., Univ of California-Santa Barbara

You, Byoung Hee, Associate Professor, Engineering Technology, Ph.D., Louisiana State Univ AM College

You, Leyuan, Associate Professor, Finance Economics, Ph.D., Florida International University

Young, Randall Frederick, Assistant Professor, Accounting, Ph.D., University of North Texas

Yu, Qingkai, Assistant Professor, Engineering, Ph.D., University of Houston

Yuan, Lijun, Professor, Philosophy, Ph.D., University of Colorado Boulder

Yuan, Yihong, Assistant Professor, Geography, Ph.D., Univ of California-Santa Barbara

Yun, Hyun J, Associate Professor, Political Science, Ph.D., University of Florida

Zakhidov, Alexander, Assistant Professor, Physics, Ph.D., Moscow State University

Zank, Gail Marie, Professor, Marketing, Ph.D., Texas AM University

Zare, Habil, Assistant Professor, Computer Science, Ph.D., University of British Columbia

Zhan, F Benjamin, Professor, Geography, Ph.D., State Univ of NY Coll at Buffalo

Zhang, Peiqin, Assistant Professor, Comp Info Sys Quant Mthd, Ph.D., Univ of North Carolina-Charlotte

Zhao, Qiang, Associate Professor, Mathematics, Ph.D., Univ of Missouri-Columbia

Zhu, Pinfan, Professor, English, Ph.D., Texas Tech University

Zimmermann, Jo An, Associate Professor, Health Human Performance, Ph.D., Clemson University

Zong, Ziliang, Assistant Professor, Computer Science, Ph.D., Auburn University

Zuniga, Krystle E, Assistant Professor, Family Consumer Sciences, Ph.D., Univ of Illinois Urbana-Champaign

# COURSES

## Accounting (ACC)

### ACC 2301. Accounting in Organizations and Society.

Introductory accounting course for non-business majors. Describes the role of accounting as an information system essential for the operation of today's organizations. Focus is on (1) how data is captured and processed to provide information for decision-making, and (2) how the information provided can be used for decision-making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 2325. Financial Analysis and Accounting.

A study of financial statement analysis and overview of financial statements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

### ACC 2361. Introduction to Financial Accounting.

This course introduces financial accounting concepts and their application in the accounting process for business organizations, including financial statement preparation, analysis and communication of financial information and related ethical responsibilities. Prerequisite: Math 1319 or equivalent or SAT Mathematics score of 580 to 800 or ACT Math (MP) score of at least 27

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ACCT 2301

### ACC 2362. Introduction to Managerial Accounting.

This course provides an introduction to the use of accounting information as an aid to management decision making and budgeting. Students will gain an appreciation of control processes and an understanding of accounting reports and related ethical responsibilities. Prerequisites: ACC 2361 and MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ACCT 2302

### ACC 3313. Intermediate Accounting I.

An in-depth study of accounting concepts and standards with emphasis on current theory and practices relating to corporate financial statements particularly stressing asset measurement and presentation. Prerequisites: ACC 2361 and ACC 2362 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3314. Intermediate Accounting II.

This course provides a study of accounting problems related to liability measurement, determination of stockholders' equity, earnings per share, leases, and revenue recognition. It also covers intangibles and investments. Prerequisite: ACC 3313 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3363. Governmental Accounting.

A study of concepts and techniques of fund accounting, and financial reporting for governmental and not-for-profit organizations including state and local government, universities, hospitals, and other public sector entities. Prerequisite: ACC 3313 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3365. Cost/Managerial Accounting.

The study of cost/management accounting within the manufacturing and merchandising environment. Includes the analysis of cost accumulation, planning, and control within the organization. Specific topics emphasized are job order and process costing; standard costing, standard costing and variance analysis; absorption and direct costing; budgetary procedures; cost/volume profit analysis; and capital budgeting techniques. Prerequisites: QMST 2333; ACC 2362 with a grade of "C" or higher, and completion or concurrent enrollment in ACC 3313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 3385. Accounting Systems.

A study of elements of theory, procedures, and practice relating to system design and implementation for manual and computerized accounting information systems. Emphasis placed on system selection, data entry, file structure, internal control implementation, and report generation for various information end-users. Prerequisites: ACC 3313 with a grade of "B" or higher; CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 4313. Auditing and Internal Controls.

This course provides a study of the theory and practices relating to auditing. The course emphasizes the procedures used to evaluate the effectiveness of risk management and control processes, including prevention and detection of fraud. Prerequisites: ACC 3314 and ACC 3385 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

### ACC 4328. Survey of Income Tax.

An introduction to Federal income tax provisions, concepts and issues concerning individuals, business and property transactions. The coursework focuses on income and expense recognition as well as tax planning opportunities. Prerequisite: ACC 3313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

### ACC 4390A. International Accounting.

This course introduces students to accounting issues unique to multinational enterprises and international business activity. Financial accounting practices are compared across different countries. The development of international accounting standards is also explored. Prerequisite: ACC 3313. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics

**Grade Mode:** Standard Letter



**ACC 5303. Fundamental Accounting.**

An intensive study of financial accounting procedures, concepts, and reports utilized in making business decisions, including preparation and interpretation of financial statements, measurement of cash flows, and financial forecasting. May not be counted as an elective MBA course.

This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ACC 5315. Selected Topics in Financial Accounting.**

The study of specialized financial accounting topics, existing and prospective, necessary for an advanced understanding of financial reporting. Topics include: pensions and post-retirement benefits, deferred taxes, derivatives, share-based payments, interim and segment reporting and emerging issues of the Emerging Issues Task Force. Prerequisite: ACC 3314 with a grade of "B" or better

ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5316. Advanced Accounting.**

A study of accounting for business combinations and consolidated financial statements. Additional selected topics may include accounting for multinational operations, interim reporting, SEC reporting, partnership and governmental and not-for-profit accounting. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5320. Auditing.**

A study of the underlying theory of external financial auditing including professional ethics, auditing standards and procedures, and the role of auditor's judgment. (Suggested for CPA eligibility). Prerequisites: ACC 3314 and ACC 4313 with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5340. Individual Income Tax.**

A study of the tax concepts and issues involved in an individual's employment and personal life, and in sole proprietorships, property transactions, tax administration and tax practice. Regulatory and ethical issues are incorporated into the discussion. This course may not count as an elective in any master's program in the McCoy College of Business. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5350. Professional Accounting Research.**

This course provides a study of the sources of authoritative standards in financial accounting. The course develops procedures for identifying the applicable accounting issues, locating appropriate authority, and communicating the results of professional research. Prerequisite: ACC 3314 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5352. Financial Statement Reporting and Analysis.**

A study of financial statement reporting and analysis. Use of tools and skills will be used to analyze and interpret financial reports for assessing financial performance of firms to facilitate investment, lending, and other financial decisions in a variety of business contexts. Prerequisite: ACC 3313, or ACC 5303, or ACC 5361 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5355. IT Auditing.**

A study of the IT audit: the process of collecting and evaluating evidence of an IT system practices and operations. The course develops understanding of the procedures to test whether the systems are safeguarding assets, maintaining data security and operating effectively and efficiently. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5361. Accounting Analysis for Managerial Decision Making.**

Use of accounting information for improving managerial decision making. Emphasis is on understanding the practice of business management, budgeting, cost behavior, and operational, internal, and management control. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5362. Cost and Managerial Accounting Theory.**

A study of recent developments and topics in the area of cost and managerial accounting. Includes a discussion of quantitative techniques and their applicability to accounting problems. Prerequisites: ACC 3365 or ACC 5361 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5366. Business Entity Taxation.**

Federal income tax provisions affecting business decisions, with an emphasis on C Corporations, Limited Liability Companies, and Partnerships. An introduction to the choice, formation, organization, operation and distribution rules of the preceding business entities. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better. Co-requisite: ACC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5367. Seminar in Auditing.**

A continuing study of the underlying theory of auditing with an emphasis on professionalism, ethics, and legal liability. Coverage will also extend to the responsibilities and standards of external auditing, internal auditing, governmental auditing, and international auditing, including exposure to current developments in these areas. Practical applications will focus on risk assessment, the use of analytical procedures, and the use of the computer as an audit tool. Prerequisite: ACC 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5369. Special Studies in Accounting.**

Directed study and research on selected accounting topics, including the development of accounting thought and research in; advanced tax topics, international accounting, professional ethics and managerial and financial accounting. Courses will be offered as independent instruction. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5370. Internship in Accounting.**

Experiential learning during which the students work in accounting. This work experience may be in public, industry, or governmental accounting units. The student is immersed in a variety of intensive work assignments with increasing levels of responsibility. Students taking ACC 5370 for credit may not take ACC 5680 for credit. Graded on a credit (CR), no credit (F) basis. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ACC 5371. Accounting Information Systems.**

This course studies various accounting information systems technologies used to enhance business process operations. It also explores management of risks and controls, and management of information resources. Prerequisite: ACC 3385 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5372. Tax Research.**

An examination of the sources of tax authority, which include its primary sources (legislative, judicial, and administrative), as well as secondary sources. The course also develops procedures for identifying the applicable tax issues, locating appropriate tax authority, and communicating the results of tax research. Prerequisites: ACC 3314 and ACC 4328 (or equivalents) with grades of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5373. Fraud Detection and Prevention.**

This course provides an in-depth study of how and why fraud is committed. It explores red flags that may help in detecting fraudulent activities, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved. Prerequisite: ACC 3313 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5375. Business Information Consulting.**

Integrative capstone for the MSAIT program using principles and concepts applied through the analysis and presentation of case studies dealing with current issues or emerging trends in the fields of accounting and information technology for the accounting professionals serving as consultants. Prerequisite: ACC 5371

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5377. Partnership Taxation.**

A comprehensive study of the tax implications of conducting a business as a partnership or as a limited liability company. Life-cycle analysis and tax planning considerations are emphasized. Prerequisite: ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5378. Tax Practice, Procedures, Audits and Controversy.**

This course focuses on the procedural aspects of tax planning and tax return preparation. Coverage includes IRS enforcement tools and corresponding taxpayer rights, audits and appeals, civil and criminal penalties, and statutory relief provisions. Professional standards and ethical considerations in tax practice are emphasized. Prerequisite: ACC 5366 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5379. State and Local Taxation.**

This is a survey of state and local income tax systems emphasizing income and franchise taxes on individuals and business entities, sales and use taxes, and property taxes. Coverage includes business nexus and multistate allocation and apportionment issues. Prerequisite: ACC 4328 or ACC 5340. Corequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5381. Advanced Business and Regulation Concepts.**

An in-depth study of business environment and regulation concepts in preparation for professional accounting exams. Either ACC 5380 or 5381 must be taken in the final semester of the Master of Accounting program. Prerequisites: ACC 5360 and ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5383. Enterprise Resource Planning Systems.**

The use of information technology for integrating enterprises for operational control and strategic business intelligence is examined via ERP applications in customer relationship management, accounting and finance, purchasing and production control, sales and marketing, and human resource management. Managerial issues surrounding the selection, design and implementation of ERP systems are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5384. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5385. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design, and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Student will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5389. Corporate Governance and Ethics.**

A study of the corporate governance and ethical issues in accounting, including ethical reasoning, integrity, objectivity, independence, core values and professional issues. Prerequisites: ACC 3314 (or equivalent) with a grade of "B" or better, and ACC 3363, ACC 3365, ACC 3385, ACC 4313, and ACC 4328 or ACC 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ACC 5390A. International Accounting.**

A study of the impact of international business activity on the profession of accounting. The course will investigate the development of international accounting standards and compare those standards to existing United States standards. Students taking ACC 4390A for credit may not take ACC 5390A for credit. Prerequisite: ACC 5315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**ACC 5390F. Mergers, Acquisitions, and Consolidations Taxation.**

This course on mergers, acquisitions and consolidations will examine the tax ramifications and corporate strategies considerations of buying, selling and combining different companies; the consolidated tax return consequences of those affiliated groups; and the residual outcomes and tax attributes that result from corporate divisions. Prerequisite: ACC 5366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ACC 5390G. Sustainability Reporting.**

This course on sustainability reporting strategies will examine analytical methods and reporting techniques used by for-profit and non-profit companies to support sustainable operations. Prerequisite: ACC 5303 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Adult Education (ADED)

**ADED 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5321. Adult Learning and Development.**

This seminar will cover a range of topics of interest of professionals working with adult learners in a variety of settings, including characteristics and motivations of adult learners; theories of adult learning and intelligence; modes of adult cognitive and psychosocial development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5330. Managing Adult Education.**

This course introduces skills and concepts needed to manage adult education programs and organizations within various settings. These include (a) educational institutions such as university continuing education, community colleges, for-profit post-secondary education, and public schools; (b) government; (c) not-for-profit and other non-governmental including community organizations, and (d) business and industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5335. Applied Research in Adult Education.**

An examination of purpose, principles, and methods of current research in adult education. Quantitative, qualitative, and mixed methods research design will be investigated as used in applied research including action research, evaluation research, and needs assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5337. Adult Literacy.**

The course is designed to provide students with a broad foundation about the needs of undereducated adults, including adult English language learners. Students will analyze and evaluate adult literacy legislation, instruction, research, and delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5338. Applied Linguistics for ESL Teachers of Adults.**

This course is designed to provide language teachers a practical introduction to the elements of the English language as applied to the teaching of ESL in adult settings; specifically, the course covers English syntactic structure, morphology, and phonology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5339. Adult Literacy ESL Assessment and Evaluation.**

This course is an introduction to assessment of adult students with emphasis on literacy and ESL populations. It is an overview of assessment constructs and social and historical movements in student literacy assessment and evaluation traditional assessment and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5340. Adult Second Language Acquisition.**

This course covers topics related to contemporary adult second language acquisition practices. It also examines the complexities of adult second language acquisition and the ways in which limited English-proficient adults learn more efficiently. Class readings and projects address a variety of issues dealing with adult second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5344. Multicultural Perspectives in Postsecondary Education and Adult Education.**

This seminar covers a broad range of topics related to diversity within postsecondary and adult education. Course readings and projects relate to a wide variety of settings including colleges and universities, adult literacy programs, the workplace, and community-based organizations. Students taking ADED 5344 may not take ADED 7344 for doctoral level credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ADED 5345. Current Issues in Adult, Continuing and Professional Education.**

A seminar style course focusing on current issues in continuing and professional education including research and professional practice. Specific emphasis will vary depending on changes in contemporary issues. Students taking ADED 5345 may not take ADED 7345 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5378. Problems in Adult Education.**

This course is designed to examine topical problems faced by practitioners in adult education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5382. Foundations of Adult Education.**

This course will provide an overview of the field of adult education in its various forms and settings. Topics include (1) historical origins of adult education as a field of study and practice, (2) philosophical perspectives, (3) organization and delivery of adult education, and (4) emerging developments and issues in the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 5384. Internship in Adult Education.**

The 150-clock hour internship is required of all Adult Education majors. The experience involves instruction and/or administration in an adult education setting and includes orientation to the roles, responsibilities, and functions of professionals in adult education. Graded on a credit (CR), no credit (F) basis. Prerequisites: ADED 5321, ADED 5330, ED 7324, ADED 7325

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Adult Education 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ADED 7325. Teaching Adults: Principles and Practices.**

Seminar that addresses methods and techniques for effective instruction of adults across a variety of settings and content. Emphasis on concepts, theories, and principles relevant to the selection, use, and evaluation of instructional strategies. Participants will have an opportunity to practice strategies that expand their teaching repertoire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 7337. Adult Literacy.**

This course is designed to provide students with a broad foundation about the needs of undereducated students with a broad foundation about the needs of undereducated adults, including adult English language learners. Students will analyze and evaluate adult literacy legislation, instruction, research, and delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 7342. Adult ESL Methods and Materials.**

This course reviews traditional and contemporary adult language teaching methodologies. It focuses on the design of lessons that integrate listening, speaking, reading, writing, culture and all language skills. This class provides strategies for choosing, adopting, and adapting textbooks that integrate teaching material appropriate to different adult language learning settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 7343. Organizational Learning and Development.**

The course addresses a range of topics, including the effects of change, methods of organizational change, and factors influencing organizational development success. Students learn the roles of internal and external organizational development consultants, tools and processes for helping organizational members identify problems, gather and analyze information, and implement solutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ADED 7344. Multicultural Perspectives in Postsecondary Education and Adult Education.**

This seminar covers a broad range of topics related to diversity within postsecondary and adult education. Course readings and projects relate to a wide variety of setting including colleges and universities, adult literacy programs, the workplace, and community based organizations. Students who have completed ADED 5344 may not take this course for doctoral credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ADED 7345. Current Issues in Adult, Continuing and Professional Education.**

A seminar style course focusing on current issues in continuing and professional education including research and professional practice. Specific emphasis will vary depending on changes in contemporary issues. Students who have completed ADED 5345 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ADED 7346. Adult and Nontraditional Students in Higher Education.**

This seminar focuses on the "nontraditional student" in higher education, with emphasis on undergraduates 25 and older. Also considered are other nontraditional students facing similar challenges to participation in higher education. Topics include student characteristics, motivations, barriers, persistence, and outcomes as well as institutional and programmatic responses to this population

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Aerospace Studies (A S)

**A S 1000. Leadership Laboratory.**

An integral and mandatory two-hour lab accomplished concurrently with all Aerospace Studies courses. It is a progression of practical command and staff experiences that develop leadership potential. AFROTC cadets plan, organize, direct, coordinate, and control all activities. The lab is repeatable without credit because it focuses on different leadership processes

**0 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Time Conflicts Permitted

**Grade Mode:** Credit/No Credit

**A S 1110. The Air Force Today I.**

A study of the doctrine, mission, and organization of the United States Air Force; United States strategic offensive and defensive forces, their missions and functions; and employment of nuclear weapons. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 1120. The Air Force Today II.**

An introduction to flight, oral and written communication for the Air Force officer, Air Force installations, the Air Force profession and how the Air Force integrates with the U.S. Army, Navy, Marines, and Coast Guard. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 2110. The Development of Air Power I.**

A historical study of the development of air and space power beginning before the first powered flights through WWI, the inter-war years, and WWII, tracing the development of various air power concepts with a focus on factors prompting aerospace research and technological change. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 2120. The Development of Air Power II.**

A continuation of A S 2110 studying the historical development of air and space power from Vietnam to the present. Events and trends in the history of airpower are examined, emphasizing examples of the impact of air and space power on strategic thought. Co-requisite: A S 1000

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 3311. Leadership and Management I.**

A study of the framework of leadership in the Air Force (AF), part 1. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 3312. Leadership and Management II.**

A study of the framework of leadership in the Air Force (AF), part 2. Practical case studies examine AF leadership and management situations and discipline and ethics scenarios that demonstrate applications of the concepts. The course emphasizes communication skills used by officers in the AF. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**A S 4311. National Security Forces in Contemporary American Society I.**

Part 1 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**A S 4312. National Security Forces in Contemporary American Society II.**

Part 2 of the study of professional Air Force (AF) officers in a democratic society; societal attitudes toward the armed forces; national defense structure, policy development; and military law. AFROTC cadets study topics that prepare them for duty as AF officers. The course emphasizes AF communication skills. Co-requisite: A S 1000

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## Agricultural Education (AGED)

**AGED 5101. Instructional Skill Development.**

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Agricultural Education. Topics covered are essential teaching strategies, techniques, evaluation design, ethical classroom behavior, and effective instructional motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**AGED 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5314. Special Problems in Agricultural Education.**

The student is given the opportunity to work on problems of special interest and need in the discipline of agricultural education. May be repeated (once) for additional credit when the problem differs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5318. Administration and Supervision of Vocational Education.**

The administration of comprehensive vocational education programs with emphasis on the operation and implementation of programs governed by state and national laws

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5319. Principles and Methods of Adult Education.**

The rationale, planning, implementing, conducting, and evaluation of adult education programs in formal and non-formal settings will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5320. History and Philosophy of Agricultural Education.**

This course covers the history, basic principles, and philosophy of different programs of agricultural education existing today

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5321. Methods of Technological Change.**

The dynamics of cultural change as theoretical framework for planned technological change, methods of implementing change, the effects of change, and the prediction of change will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5330. Research Methods in Agricultural Education.**

The principles and procedures of using and communicating both quantitative and qualitative research in agricultural education will be addressed. Special emphasis will be given to using appropriate methods to address research problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5331. Guidance.**

Analysis of occupational and vocational opportunities for vocational students; includes work in interpersonal communications as well as in the techniques of individual and group counseling in guidance. Practice in personality and occupational interest testing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5335. Curriculum Development of Vocational Programs.**

Principles and practices in developing curricula for different areas of vocational education will be emphasized. The dynamics of cultural and technological changes on methods of planning and implementing vocational curricula as it relates to the educational needs of vocational youth will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AGED 5371A. Agriculture Farm Power and Machinery.**

Advanced study in areas related to the usage of farm power units and machinery in the production and processing of food and fiber. Emphasis will be placed on modern technology associated with various equipment utilized in mechanized agriculture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5371D. Agricultural Structures Design.**

Principles of design and construction for structures associated with agricultural production. Emphasis will be placed on processes, materials and standards associated with different areas of production agriculture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5371E. Advanced Welding Processes and Designs.**

Advanced study in areas related to welding processes and equipment utilized in the design, construction and repair of agricultural structures and equipment. Emphasis will be placed on processes and methods, which may be applicable to agriculture production situations as well as in the processing of agricultural products

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**AGED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Agricultural Education, AGED 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AGED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Agriculture (AG)

**AG 1110. Careers in Agriculture.**

This course is an introduction to careers available in the broad field of agriculture including an overview of personal and career qualifications needed for workplace success

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1131

**AG 1445. Basic Animal Science.**

An introductory course designed to acquaint students with the importance of the livestock industry. A study of the types and breeds; market classes and grades of beef cattle, swine, sheep, goats, horses, and poultry; attention will be given to breeding, judging, care, and management

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1419

**AG 2310. Applied Leadership Principles.**

Preparation for professional leadership and service, with emphasis on application of leadership principles. The course will focus on guiding students in developing enhanced leadership skills through group and individual leadership enhancement projects and topic research. Prerequisite: AG 1110

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 2313. Agronomic Crops.**

A study of the production, harvest practices, storage, and use of cereal and feed grains, fiber crops, forages, and other related crops requiring special technology

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1307

**AG 2345. Horse Management.**

A course designed as a broad but thorough coverage of most areas of horse husbandry and production, including anatomy, physiology, breeding, feeding, training, and health care. Laboratory sessions are designed to acquaint the student with modern methods of breeding, training, and care of the horse

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 2367. Animal Ultrasonography.**

A study of current developments and utilization of animal ultrasonography technology in agriculture. Hands-on training in animal growth and development, animal breeding, animal handling and management, animal reproduction, computer technology and data interpretation

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 2373. Introduction to Agricultural Engineering.**

An introductory course designed to acquaint students with a wide range of concepts, principles and applied technologies in agricultural engineering. A problem solving course

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 2303

**AG 2374. Metal Fabrication and Welding Technology for Agriculture.**

This course covers the principles and practices of applied metallurgy and welding. Emphasis is given to the management of the technologies and techniques associated with oxy-fuel cutting, shielded metal arc welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), and Plasma Arc Cutting (PAC). Prerequisite: AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 2379. General Horticulture.**

A survey of the general field of horticulture including general areas of employment

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1315

**AG 2383. Introduction to Agricultural Economics.**

The role of agriculture in the general economy; the study of basic economic concepts with their application to the agricultural firm; the structure and operation of the marketing system; the functional and institutional aspects of agricultural finance; international trade; and government farm programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** AGRI 2317

**AG 2390. Computer Applications in Agriculture.**

Introduction to computers and computer technology; operation and application of the computer in production agriculture and agricultural business, services and industries. Includes characteristics of computer hardware and software, accessing and using the computer in agriculture

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** AGRI 1309

**AG 3301. Genetics of Livestock and Plant Improvement.**

Fundamental principles of genetics and their application to higher plants and animals. The physical basis of Mendelian inheritance, expression and interaction of genes, gene frequency, linkage, sex linkage, inbreeding, line breeding, and crossbreeding as applied to selection indices for livestock and plants. Prerequisites: AG 1445; BIO 1330 and BIO 1130. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3302. Herbaceous Plant Materials.**

This course will include the identification, selection, use, and management of annuals, perennials, herbs, and ornamental grasses in the landscape. Each student will learn irrigation, fertilization, pruning, and other cultural needs of such plants. The laboratory will complement lecture

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3304. Propagation of Horticultural Plants.**

Principles and practices of propagating ornamental plants, vegetables, and fruits by sexual and asexual methods including germination of seed, layerage, graftage, division, cuttage, bulbs, corms, and other vegetative plant structures. Study of physical, physiological and environmental factors affecting propagation of ornamental plants

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3305. Woody Plant Materials for Outdoor Landscapes.**

Study of woody plant material including fruit and ornamental trees, shrubs, and ground covers and their identification, nomenclature, and use in the planting and development of home landscapes

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3306. Flowers and Plants for Interior Design.**

Study of flowers, cut flowers, foliage and blooming pot plants to enhance the interior design of homes and businesses including their identification, cultural requirements, uses, diagnoses and corrective measures of disorders. Basic principles of flower arrangement and the preparation of floral and plant decoration as used in interior design. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 3308. Organic Gardening.**

Study of principles and practices that involve the production of vegetables by organic methods. Fertility and irrigation; as well as weed, insect and disease control by practices will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3310. Agriculture Power and Machinery Technology.**

This course covers the principles of 2 stroke and 4-stroke cycle engines, ignition, and combustion types including injection systems. Components including power and power transmissions and hydraulic systems will also be addressed. Prerequisites: MATH 1315 and AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3314. Animal Health and Disease Control.**

A course designed to enable the animal science student to understand basic veterinary principles as applied to prevention of disease in domestic livestock. Common diseases of livestock are considered, with emphasis on sanitation and modern preventative methods concerned with keeping livestock healthy. Prerequisite: AG 1445

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3317. Farm Management.**

Tools and techniques which are basic to the study of farm organization and decision making, the wise allocation of factors of production, the keeping of records, and income tax management. Prerequisites: AG 2383, AG 2390; MATH 1315 or MATH 1319

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3318. Agricultural Business Management.**

Introduction to the institutions and functions in agribusiness. The institutional structure of the agribusiness sector such as the feed, farm machinery and equipment, farm chemicals, financial institutions and private and public agri-services will be delineated. The second part of the course will introduce and develop the various functions such as organizational behavior, financial management, market management and human resource management. Prerequisites: AG 2383, AG 2390; MATH 1315 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3319. International Food and Fiber Systems.**

Presents the food and fiber system from an international Component. Analysis of food production and consumption patterns under different world economic systems, causes of surpluses and shortages throughout the world; the role of trade in solving food and agricultural problems. Outlook and situation for food and fiber is discussed for both developed and developing nations, and impact of U.S. food policy on world trade flows is presented. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**AG 3321. Range Management.**

Practical problems met in managing native pastures and rangelands. Attention to determining range condition and proper stocking rates, methods of handling livestock on the range, range reseeding, brush control, and poisonous plants. The ecological and physiological response of range vegetation to grazing. Prerequisite: AG 1445

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 3325. Animal Nutrition.**

Principles of animal nutrition with emphasis on digestion, absorption, metabolism, and function of nutrients; estimation of feedstuff nutritive value; and requirements of animals. Prerequisites: CHEM 1341, CHEM 1141 and BIO 1330 BIO 1130. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3329. Economic Entomology.**

A study of the most common insects of field crops, fruits, and vegetables; life history, methods of attack, damage, and means of preventing and controlling. Collection and mounts of insects will be made

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3330. Applied Wildlife Nutrition.**

Basic and fundamental principles of nutrition for ruminant and non-ruminant wildlife with emphasis in North American and African wildlife. Attention will be given to digestive physiology and anatomy, feed sources, forage resources, and nutrient requirements. Prerequisite: AG 1445 or BIO 1330 and BIO 1130

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**AG 3331. Reproduction in Farm Animals.**

An examination of the anatomy and physiology of reproductive systems of livestock of economic importance. Attention is given to reproductive failure and disease. The laboratory includes pregnancy testing, semen collection and evaluation, artificial insemination techniques, and evaluation of breeding records. Prerequisites: AG 1445 and 3301, or BIO 2450

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3345. Livestock Selection and Evaluation.**

Detailed consideration of the factors involved in the selection and evaluation of beef cattle, sheep, swine, rabbits, goats, and chickens. Emphasis will be placed on the care, grooming and exhibition of livestock projects. Prerequisite: AG 1445; junior classification

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3351. Agricultural Marketing and Sales.**

A study of the food marketing system and farm input sales; includes the functional systems approach that integrates the agricultural input industries into a discussion of food marketing; takes a micro approach to the development of marketing management skills needed in agribusiness; and provides a critical outlook on issues ranging from inputs to final food products. Prerequisites: AG 2383; MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 3352. Quantitative Methods in Agricultural Economics.**

Principles involved in collection, tabulating and analyzing agricultural data. Topics include sampling procedures, questionnaire development, descriptive analysis of data, correlation, prediction and forecasting and tests of significance. Simple computer programs will be stressed for class exercises during the course. Prerequisite: MATH 1315, MATH 1319, MATH 2321, or MATH 2471

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3353. Agricultural Structures and Environment.**

Principles and practices associated with structural components, selection, materials of construction, heat and moisture control, and the environmental issues of waste management systems; a problem solving course. Prerequisites: MATH 1315, AG 2373 and AG 2390

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3375. Management of Agricultural Machinery and Equipment.**

This course addresses the optimization of the equipment phases of agricultural production and processing. Emphasis will be placed on management and decision making principles concerned with the efficient selection, operation, repair, maintenance, and replacement of machinery and equipment. Prerequisites: AG 2373, MATH 1315, CHEM 1341, CHEM 1141, and AG 2390

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 3426. Soil Science I.**

The fundamental principles of soil science to acquaint the student with some physical, chemical, and biological properties of the soil. Prerequisites: CHEM 1341 and CHEM 1141; and AG 2313 or AG 2379

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**AG 3427. Soil Science II.**

Management of soils as pertaining to their place in the environment. Special emphasis will be given to the role of soil in conventional agricultural systems, natural resource systems, waste management systems, and reclaimed and artificial soil systems. Prerequisite: AG 3426. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 3455. Land Surveying.**

Engineering practices used in plane and geodetic surveying including differential and profile leveling, topographic, land, boundary and cadastral, and construction surveys. Laboratory exercises include use of dumpy levels, transits and total stations, and GPS (Global Positioning System) total station with RTK (real time kinematic). Planimeters and stereoscopes are used in analyzing aerial maps. Prerequisites: MATH 1315 or MATH 1317 or MATH 1319; AG 2373 and AG 2390

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**AG 4185. Current Problems in Technical Agriculture.**

A course for advanced undergraduates to study subject matter of special interest in agriculture. Problems in agronomy, economics, animal science, plant science, and farm mechanics may be selected. Prerequisite: Approval by department chair. May be repeated for up to three semester hours credit. Course may not be taken for graduate credit. (WI)

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted|Writing Intensive

**Grade Mode:** Standard Letter

**AG 4212. Program Building.**

This course will focus on program and curriculum development in agricultural education settings. Primary course elements will include determining program and curriculum goals and objectives, implementing the program, and curriculum evaluation. Prerequisites: AG 4343, AG 4361 (to be taken in final semester)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4300. Greenhouse and Nursery Management.**

Planning greenhouses for commercial and home use; plant-nursery layouts. Study of the physical and economic factors affecting the production of plants in the greenhouse and other forcing structures, and in the field; management techniques used in the production and marketing of greenhouse and nursery plants. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 4302. Fruit and Vegetable Crop Production.**

Factors influencing small-fruit and tree-fruit and vegetable crop production in the field including root stocks, varieties, soil, planting, transplanting, irrigating, fertilizing, pruning, insects, diseases, nematodes, weeds, chemicals, harvesting, storing, and marketing; greenhouse production of certain vegetables. Prerequisite: AG 2313 or AG 2379. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 4304. Landscape Management.**

To acquaint students with the practices and techniques used in professional landscape construction and management, and with the scientific and technical basis for such practices

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4305. Landscape Design.**

Landscaping combines elements of art and science to create functional, aesthetically pleasing outdoor space. This class helps students develop knowledge of design elements and principles. Students learn site and client analysis techniques for critiquing landscapes. Students learn to communicate ideas through the planning and drawing of landscape plans

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4307. Professional Development in Agriculture.**

This course requires students to select a topic of current interest appropriate to the major. Critical analysis of the situation including both positive and negative aspects will be encouraged. Findings will be presented in both oral and written form. (Capstone Course). Senior Classification required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4310. Agricultural Internship.**

This course integrates professional and academic experience through internship with an external employer. The internship is designed to provide actual work experience, observation and analysis in the student's chosen career field. Prerequisites: Junior or Senior standing and a GPA of 2.75 or higher

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**AG 4311. Instructional Methods for Career and Technology Educators.**

An analysis of the instructional techniques, strategies and methods appropriate to the effective teaching of career and technology subjects. Teaching special populations and teaching in multicultural environments will be addressed. To be taken the Fall semester before student teaching

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**AG 4325. Feeds and Feeding.**

Study of feedstuffs used in livestock enterprises. Application of basic nutrients to the needs of different species of livestock. Formulating rations, methods of feeding, feed control laws, and feeding investigation. Prerequisites: AG 1445; CHEM 1341, CHEM 1141; BIO 1330, BIO 1130

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4326. Advanced Animal Science-Ruminants.**

The application of scientific and technological advances to production and management in ruminant animal production and management. Prerequisite: AG 1445. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter



**AG 4328. Advanced Animal Science-Poultry and Swine.**

Application of basic principles in the production and management of nonruminant animals. Scientific and technological advances with emphasis on overall management, health care, nutrition, genetics, physiology, and marketing of nonruminant animals. Prerequisite: AG 1445. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4330. Food Technology: Processing Meats.**

Evaluation and grading of carcasses; wholesale and retail cuts of beef, pork, lamb, and poultry. Emphasis on quality controls, testing of finished products that have been frozen, cured, fried, pickled, and canned. Prerequisites: AG 1445, BIO 1330, 1130 and CHEM 1341, 1141; or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4343. Organization and Management for Laboratory Programs.**

Instructional programs involving laboratory equipment and facilities will be examined. Curriculum, teaching methods, equipment and facility management practices including various aspects of safety, tool management, inventory and security are emphasized along with facilities layout planning. Must be taken in last semester of program. Prerequisites or co-requisites: AG 4212 and AG 4681

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4361. Agriculture Electric and Mechanical Systems.**

Electrical fundamentals applied to agricultural production and processing. Circuits, power, energy, wiring design, and motor fundamentals; selection, installation and operational characteristics. Sensors and control devices including switches, relays, timers, and circuit breakers will be studied. Prerequisite: AG 2373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AG 4371B. Agriculture Irrigation Technology.**

Principles associated with water management practices in maintaining soil productivity and the influence of water management on environmental quality. Emphasis will be placed on the selection and layout of irrigation and drainage systems, waste management systems, and the impact on the environment. Prerequisite: AG 2373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**AG 4371T. International Horticulture.**

The purpose of this program is to introduce students to the English culture and way of life, as well as England's historic role in Horticulture, past and present. Students will intensely study from the following four horticultural fields: Ornamental Horticulture, Landscape Design, Vegetables/Fruit Crops, and Vineyards and Hops. The program includes basic instruction in English history, as well as lectures and field trips

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**AG 4380. Agricultural Finance.**

An introduction to finance and financial problems faced by agribusiness managers. The subject matter includes financial analysis, planning, and control; capital budgeting; capital structure, liquidity, and risk management; and financial markets. Prerequisites: AG 2383; MATH 1315 or MATH 1319; ACC 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 4381. Agricultural Policy.**

Identification and analysis of governmental programs and policies affecting the production and marketing of agricultural products. An economic evaluation of alternative policies and their application for farmers, consumers and agribusinesses will be considered. Prerequisites: AG 2383; MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4383. Agricultural Resource Economics.**

Economic concepts and institutional factors relating to the use of agricultural resources such as land, air, water, energy, space, etc. Emphasis is on the conservation of resources and the environmental interactions resulting from the use of natural resources for agricultural production. Prerequisite: AG 2383, MATH 1315 or MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AG 4681. Student Teaching in Agricultural Science and Technology.**

Planning for teaching agricultural science in selected schools in Texas. Course to be taken in final semester. Senior classification required to enroll

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**AG 5360. Advancements in Animal Science.**

Survey of the current knowledge and concepts in animal production including economic considerations and current production problems in breeding and feeding livestock

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 5370. Special Problems in Technical Agriculture.**

Special problems will be selected to meet the needs of the individual student. May be repeated (once) for additional credit when the problem differs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AG 7310. Agriculture and Sustainable Aquatic Resources.**

Study of the impacts of agricultural on aquatic resources, including agricultural water requirements for various types of crops and soils, impacts of agricultural chemicals on aquatic ecosystems, efficiency of alternative irrigation practices, and means for altering or mitigating current practices that can adversely affect aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## American Sign Language (ASL)

**ASL 1410. Beginning American Sign Language I.**

Introduction to understanding and using American Sign Language within the cultural framework of the deaf community. Students who take ASL 1410 toward degree requirements must also complete ASL 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** SGNL 1401

**ASL 1420. Beginning American Sign Language II.**

Continued practice in understanding and using American Sign Language within the cultural framework of the deaf community. Students who take ASL 1410 toward degree requirements must also complete ASL 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** SGNL 1402

**ASL 2310. Intermediate American Sign Language I.**

Continued development and review of American Sign Language within the cultural framework of the deaf community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SGNL 2301

**ASL 2320. Intermediate American Sign Language II.**

More advanced practice in American Sign Language within the cultural framework of the deaf community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SGNL 2302

## Anthropology (ANTH)

**ANTH 1312. Cultural Anthropology.**

In this course students examine the nature of cultural variation of populations in the present and recent past. Its subjects include social, political, economic, and ideological aspects of human cultures. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ANTH 2351

**ANTH 2414. Biological Anthropology.**

This lecture and accompanying laboratory course examine fundamental aspects of the biological nature of humans using evolutionary theory.

Course content is divided into topics devoted to the process of evolution, genetics, the primate order, osteology, human evolution, and variability and adaptation

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** ANTH 2401

**ANTH 2415. Introduction to Archaeology.**

This course covers the basic principles of archaeology. It includes a study of the kinds of sites; classification of stone artifacts; methods of archaeological survey and excavation; methods of dating by geological, faunal, and radiometric means; and the theoretical approach to archaeology. This course includes a two-hour weekly laboratory

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ANTH 3301. Principles of Cultural Anthropology.**

This course is an ethnographically-based analysis of major theoretical positions and debates in contemporary anthropology. Prerequisites:

ANTH 1312 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3302. Introduction to Linguistic Anthropology.**

This course provides an introduction to the study of linguistic anthropology. We will focus on the origin of language and its evolution and diversity, the interactions between language, culture and society, and modes of communication. This course will enhance a student's awareness of the complex interrelationships between language and other aspects of culture. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3303. Applied Cultural Anthropology.**

In this course students learn the methods applied cultural anthropologists use to address social problems such as poverty, sustainable development, conflict, climate change, community health, workplace and product design, education, and cultural heritage, as well as the value "thinking anthropologically" has for a wide range of careers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3305. Magic, Ritual and Religion.**

An examination of magic and religion in cultures of the world with an emphasis on recent works dealing with mysticism and the occult. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3306. World Prehistory.**

This course presents a survey of the prehistoric human record throughout the world. It focuses upon the achievements of early and modern humans, world colonization events, and the development of complex societies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3307. History of Evolutionary Thought.**

This course discusses the impact of evolutionary discourse within the context of its history. Students will develop a thorough understanding of evolution and its importance to anthropology, as well as to other scientific disciplines. Prerequisites: ANTH 2414 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3308. Cultural Resource Management and Archaeology.**

This course surveys Cultural Resource Management (CRM) archaeology, the conservation and investigation of archaeological remains as mandated by federal and state laws. The course covers the history of CRM and its legal and regulatory framework, organization, methods, funding, employment prospects, and ethical and practical dilemmas. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3309. Cultures Through Film.**

Through films, lectures, and discussions, students explore the various ways that ethnographic film interprets the cultural environment and social interactions of small-scale cultures around the world. We will also discuss anthropological interpretations of how historically U.S. (American) culture has dealt with concepts of the "other" and supernatural phenomena through film. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3311. Disease and Society.**

In this course students examine infectious diseases and the effect they have on human societies. The course is organized into case studies of specific infectious diseases, which focus on the biology and epidemiology of a disease as well its social impact

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3313. Aztec: Native Americans and Empire.**

This course presents an understanding of Aztec culture through archaeology, the interpretation of art, religion, and architecture, and the formation of a highly specialized and stratified society with an imperial administration. The course will emphasize an intellectual and religious outlook in intimate contact with the earth, sky, and the seasons

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3314. Latin American Cultures.**

This course examines different aspects of Latin American indigenous cultures from a variety of theoretical perspectives in anthropology. Emphasis is on the Maya, and different theoretical perspectives provide different interpretations of data. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3315. Archaeology of the Southwest.**

An examination of the prehistory and early cultures of the Greater Southwest from the first arrival of humans as early as 20,000 years ago to the coming of the Spaniards in the 16th century. The course covers several mammoth kill sites at the end of the Pleistocene; the emergence of Archaic hunters and gatherers and the appearance of agriculture about two thousand years ago, leading to the three major cultures in the southwest-the Mogollon, the Hohokam and the Anasazi, the last in multistoried pueblos and cliff dwellings. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3316. The Origin and Evolution of Human Behavior.**

This course presents our current understanding of Old World Paleolithic Archaeology. The origin and evolution of hominid behavior, the initial colonization of the Old World, and the development of modern human behavior will be discussed for each continent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3317. Rock Art Field Methods.**

This course will train students in rock art field methods. They will gain first-hand experience recording rock art sites through photography, field sketches, mapping, and written inventories. Students will generate a visual and written description of the art, which they will use to infer and explain past human behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3318. Texas Archaeology.**

This course will present our current understanding of Texas archaeology. The environmental and social contexts of prehistoric, protohistoric, and historic records of Native American and Spanish occupations in Texas are discussed. Prerequisite: ANTH 2415. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3319. Human Growth and Development.**

In this course students focus on the life history of humans from birth to death, and consider how humans grow and change both biologically and psychologically over the course of their lives. Topics include life stages, sex differences, nutrition, environment, growth disorders, and the evolution of human growth

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3322. Peoples and Cultures of Africa.**

This course is a general introduction to the contemporary peoples and cultures of Africa. Students will examine the social structure, economy, political systems, and religions of African cultures in the context of the radical economic and social transformations affecting the area. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3324. Mexican American Culture.**

An examination of the history and culture of Mexican Americans with an emphasis on the analytical concepts of culture, race, class, and gender. Lectures, films, and selected readings (including chapters from anthropological and literary books and journals) will be used to portray the diversity of Mexican American experiences in this country. Topics include religion, politics, economy, identity politics, popular culture, sexuality, marriage and the family. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3325. Medical Anthropology.**

This course focuses on how illness identities are culturally constructed, how adaptations or maladaptations to local environments affect health, how political and economic forces influence health and health behaviors, and how the practice of medical anthropology can contribute to solving urgent health issues around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3326. Maya History and Society.**

The purpose of this course is to develop a knowledge of Maya Civilization from historical as well as anthropological perspectives. Students will study the features of the Classic Period Maya and modern Maya societies including the religious and economic life styles. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3327. Anthropology of Religion and Fundamentalism.**

This course provides students with current and historical approaches to the anthropology of religion with a particular emphasis on fundamentalism. It focuses on the development of religious fundamentalism in different cultural contexts, geopolitical situations, and religious traditions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3328. Primate Cognition.**

In this course students investigate historical and current views regarding the cognitive capacities of nonhuman primates, and the extent to which these abilities are shared with humans. Topics include social cognition, numerical cognition, problem solving, tool use, culture, communication, theory of mind, deception, selfrecognition, and imitation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3329. Comparative Juvenile Behavior.**

This course will give students a thorough understanding of the comparative method through examples from the development of juvenile animals. It will introduce students to socioecology, neurobiology, and life history markers, with information that they can apply across disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3332. Myths and Moundbuilders.**

This course presents an anthropological approach to Native Americans of the Southeastern United States, their culture and beliefs. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3333. North American Indians.**

This course will examine the prehistoric development of native, North American culture with special emphasis on art, religion, and the cultural mechanisms through which native Americans deal with non-native American contemporary social and political developments. Prerequisite: ANTH 1312. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3335. The Anthropology of Native American Belief Systems.**

In this course students use anthropological approaches to investigate past and present Native American belief systems in order to determine the temporal range and evolving complexity of Native American religious and ritual expression

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3336. Community Research Project.**

This course gives students the opportunity to conduct hands-on anthropological research on a variety of topics in local or other communities. Students will undertake individualized research projects designed in conjunction with the professor. Students must consult with the professor prior to enrollment to design the research project and receive approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3338. Geoarchaeology.**

This course will teach students how to interpret sediments and the nature of sediment accumulation at archeological sites. Course topics include sedimentology, natural depositional environments, weathering processes and soil development, stratigraphic analysis, and archaeological site formation processes. Prerequisite: ANTH 2415 or GEOL 1410. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3340. Human and Primate Origins.**

An examination of the long and diverse record of human and nonhuman biological adaptations as viewed from the fossil record. It examines the functional and ecological challenges that may have been responsible for the path of human development

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3342. Primate Behavior.**

In this course, students will learn about the behavior, ecology and conservation of nonhuman primates (lemurs, lorises, monkeys, and apes)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3343. Human Variation and Adaptation.**

This course examines the physical variation observable within and between human populations. It emphasizes a functional approach whereby variation is examined in relation to biological adaptation. It explores the biological mechanisms responsible for change and evaluates the potential of biological components in human behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3345. Archaeology of Mexico.**

This course examines the development of culture from early hunters and gatherers through the appearance of agriculture to the rise of civilization. The focus of the course is on the emergence of complex society among groups such as the Olmec, Aztec, and Maya. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3347. Archaeology of North America.**

This course describes human settlement of North America from the end of the Pleistocene to European discovery. It considers early occupation of arctic, plains, and forested regions and development during archaic times of Adena, Hopewell, and Mississippian societies in the Southeast and Mogollon, Hohokam, and Anasazi in the Southwest. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ANTH 3348. Rainforest Ecology.**

In this course, students will learn about the ecology and conservation of rainforest flora and fauna, with particular emphasis on primates

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3349. The Incas.**

The Incas were the largest Pre-Columbian empire in the Americas and this course will explore the origins of this civilization and how they conquered such a large area of South America. Using archaeological and historic information the class will examine various aspects of Inca society including religion, economics, and kingship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3350. Gender and Sexuality in Cross-cultural Perspective.**

This course examines historical and contemporary issues related to gender and sexuality from a global, cross-cultural perspective. It will focus on cultural constructions of gender and sexuality, including gender stratifications, biology and evolution, families and kinship, work, sex work, diverse sexualities, media representations, and domestic and sexual violence. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3354. Latin American Gender and Sexuality.**

This course examines cultural constructions of gender and sexuality among both the indigenous and immigrant populations throughout the Americas, with a special emphasis on gender inequalities in Greater Latin America. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 3355. Introduction to Yucatec/Lacandon Maya.**

This course introduces students to the fundamentals of the language of the Maya Indians of southern Mexico through lecture and "hands-on" class exercises with native Maya speakers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3356. Archaeology of Andean Civilizations.**

This course examines the cultures of the Andes Region of South America with an emphasis on pre-Columbian and contemporary peoples of the area

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3360. Economic Anthropology.**

Reviews central issues in economic anthropology, using both case studies and theoretical writings. Analyzes production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure. Materials will cover huntergatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in nonindustrialized countries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3361. Archaeological Field Methodology.**

In this course students will learn about planning, organizing, and carrying out archaeological field investigations from survey to excavation to specialized data recovery. The focus is on the research strategies, techniques and logistics necessary to design and accomplish successful field research. Prerequisite ANTH 2415. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3363. The Art and Archaeology of the Olmec.**

This course will present our current understanding of the art and archaeology of the Olmec culture, the earliest known civilization in North America. The Olmec culture is considered the influential foundation for later Mesoamerican civilizations such as the Maya and the Aztec

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3364. Biological Basis of Human Behavior.**

Students in this course evaluate studies on the biological basis of human behavior and explore the question of whether behavioral patterns are genetically fixed. It includes popular and scientific approaches to themes such as the evolution of human behavior, biology and behavior, race and racism, biological determinism, and human universals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3376A. Mixtec Codices: Prehispanic Literature of Oaxaca.**

This course surveys the dominant prehispanic cultures of Oaxaca, the Zapotec and Mixtec Indians, and focuses on the Mixtec pictogram fan-fold books called codices. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376N. Curation of Archaeological Materials.**

This course provides students with the skills to prepare archaeological materials for curation, which includes the processes and techniques used to stabilize and preserve organic and inorganic materials. This training can be used to gain certification in the field of archaeological curation. Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376P. Archaeology of the Earliest Americans.**

This course focuses on the long-standing and controversial issues of when, how, and who first peopled the Americas. This is a significant aspect of human prehistory and remains unresolved. Students will use archaeological, biological, linguistic, and environmental evidence to help identify the first inhabitants of the New World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**ANTH 3376Q. Field Methods in Forensic Anthropology.**

In this course students will learn how to locate, excavate and recover human remains, associated personal effects, and other materials in order to ensure legal credibility for all recoveries. Prerequisite: ANTH 4382

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376R. Theoretical Concepts in Archaeology.**

This course provides a broad survey of theory in archaeology as it is practiced throughout the world. It includes both historical perspectives and contemporary usage. ANTH 2415 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376S. Theory in Linguistic Anthropology.**

In this course students will learn about the major theories of linguistic anthropology through reading and discussing classic and contemporary literature. Topics include language evolution, behaviorism, mentalism, structuralism, cognitive anthropology, ethnosemantics, universalism and linguistic relativism, symbolic anthropology, culture and gender, language and identity, ethnography of speaking, and language change. Prerequisites: ANTH 1312 or ANTH 3302 and 60 hours of coursework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376T. Scientific Diving for Resource Management.**

Underwater resource management requires certain skills for those who manage, investigate, or monitor cultural, biological, or other resources found in water. This course is intended to prepare and qualify certified divers for further research and employment opportunities in underwater resource management, which includes archaeology, environmental/ecological anthropology, and other related fields. Prerequisites: Current scuba diving certification from any nationally accredited dive certification agency and an advanced scuba diving certification is recommended.

Students must also complete standard liability and waiver forms, as well as complete a diving physical prior to any water work

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376V. Anthropology of Peace and Violence.**

The class explores anthropological perspectives on peace and violence. It focuses on understanding violent practices within both traditional and current day societies including everyday violence and warfare. It explores the contributions of social structure, gender, religion, race, and ethnicity to violence. It examines efforts to build peace and reconciliation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376W. Anthropology of Disasters.**

The course examines "disasters" as socio-cultural phenomena shaped by how humans organize and build communities. It investigates how race, ethnicity, class, gender, age, and dis/ability contribute to differential impacts. It explores human experiences of disaster trauma, loss, and resilience. It shows how the discipline can help improve disaster management policies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3376X. Language and Linguistics.**

This course is concerned with the theoretical and methodological study of language, what constitutes the knowledge of a language, how this language is acquired, and how it is used. Other areas of interest include the properties of human language, its representation in the mind, learnability, origin, and change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376Y. Bioarchaeology.**

Bioarchaeology is the study of human skeletal remains in relation to the archaeological record. In this course students will study theories and methods used in the analysis of human skeletal remains in bioarchaeology to reconstruct patterns of subsistence, diet, disease, demography, biological relatedness, and physical activity of past populations. Prerequisite: ANTH 3381

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 3376Z. Language and the Body.**

This class focuses on how language shapes our identities and deeply held beliefs about our bodies. Students will have an opportunity to engage in discourse analysis of media representations as well as collect and analyze their own conversational data using the methods of linguistic and cultural anthropology. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 3380. Forensic Anthropology.**

Forensic Anthropology is the recovery and analysis of human skeletal remains for modern legal inquiry. This course is an overview of the field of Forensic Anthropology illustrated with real forensic cases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 3381. Human Osteology.**

The foundation of biological anthropology is the study of the human skeleton. This is a lab-intensive course in which students will learn how to identify skeletal elements, both whole and fragmentary

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4303. Human Speech Sounds.**

This course is an introductory overview of human speech production and perception from an anthropological perspective. It describes speech anatomy and pays particular attention to the description of the acoustic and articulatory properties of speech as it occurs in real time. Students will study articulatory, acoustic, and auditory phonetics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4304. Language, Culture and Society.**

This course seeks to introduce students to the fundamentals of linguistic anthropology, and the use of linguistics in anthropological fieldwork through lecture, discussion, and "hands on" class exercises

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4309. Culture, Medicine and the Body.**

This course explores how the human body, functions of the body, and the practices of medicine and healing are situated and contextualized within cultural frameworks. Case studies cover body and health-related topics over the life course, from birth to death. Prerequisite: ANTH 1312 or ANTH 3325, or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4310. Theories and Issues in Anthropology.**

This course explores major theoretical and historical developments in anthropology, highlighting the discipline's unique four-field perspective that includes archaeology, biological and cultural anthropology, and anthropological linguistics. Topics stress the importance of anthropological thought in key scientific discoveries and cultural debates. Prerequisites: ANTH 1312 and 60 hours of coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4315. Archaeological Artifact Identification and Analysis.**

This course will train students to describe and analyze artifacts commonly recovered from archaeological sites. Current theories covering the production and analysis of chipped and ground stone tools, ceramics, bone and other materials will be presented, and scientific analytical methods discussed. Prerequisites: ANTH 2415 and one additional archaeology course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4320. Rise of Civilization.**

This course consists of a definition of civilization and its components, its geographic setting, and the roles of religion, art, and the institution of the "Divine King" in the development of dynamic state societies in Egypt, Sumeria, the Indus Valley, and China in the Old World and that of the Olmec in Mexico and Chavin in Peru. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4360. Directed Study.**

A one-semester course of independent reading, tutorial sessions, and individual research projects. Open to superior students by invitation of the professor and with the consent of the chair of the department. May be repeated for credit with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ANTH 4361. Field Methods in Cultural Anthropology.**

This course teaches students how to conduct field research in cultural anthropology. Topics include research ethics, problem formulation, participant observation, interviewing, and other techniques for data collection and analysis. Students will conduct their own field research project under the instructor's supervision. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4363. Methods in Primate Research.**

In this course, students will learn about the methods used to study primates in captive and field settings

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ANTH 4381. Paleopathology.**

This course focuses on the study of diseases and maladies of ancient populations, and will survey the range of pathology on human skeletons from trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis, and tumors. Prerequisite: ANTH 3381. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4382. Methods in Skeletal Biology.**

This course is for students who wish to advance their osteological skills. Students will learn how to identify isolated and fragmentary skeletal remains to estimate age, sex, ancestry, stature, and health of an individual in past and present contexts. Prerequisite: ANTH 3381

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 4390. Internship in Anthropology.**

This course provides students with professional development through work or research-related experience. It includes a 250-hour internship and written report. Prerequisites: Anthropology major, junior or senior standing, ANTH 1312, ANTH 2414, ANTH 2415, and a minimum 2.5 GPA in Anthropology. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ANTH 4630. Archaeological Field School.**

This course is designed to train students in the skills and techniques of modern archaeological survey and excavation of prehistoric sites. May be repeated for credit, but only six hours may be applied toward the major

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**ANTH 5105. Anthropology Research.**

This practicum is designed to provide a student with credit while conducting independent research in the field or a lab setting. This practicum may be repeated twice with different content. Prerequisite: permission of a student's faculty mentor and the graduate advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5300. Foundation Studies in Anthropology.**

Students develop knowledge and skills required for success in graduate-level coursework in Anthropology. Course content varies depending on academic preparation. This course does not earn graduate degree credit. Repeatable up to 9 hours with different emphasis. Prerequisite: Approval of graduate advisor in Anthropology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ANTH 5301. Advanced Principles of Cultural Anthropology.**

This course is an ethnographically-based analysis of major theoretical positions and debates in contemporary anthropology. (Stacked course with ANTH 3301.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5302. Practicum in Teaching Anthropology.**

An introduction to key concepts and practices in the teaching of college-level Anthropology. The course provides training in the practical aspects of classroom instruction. Required for first-year teaching and instructional assistants in the Anthropology Department. This course does not count toward degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ANTH 5303. Speech Analysis.**

The focus of this course is the analysis of human speech sounds. It includes description of the acoustic properties of speech sounds, transcription of sounds using the International Phonetic Alphabet system, an understanding of the acoustic theories of speech, and practical experience in forensic speakers' identification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5304. Sociolinguistics.**

The focus of this course is on the complex interrelationships between language and other aspects of culture. Methods of sociolinguistics, theories of sociolinguistics, and current issues regarding the nature of language variation and change will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5305. Anthropological Statistics.**

In this course students will learn how to statistically analyze anthropological data. Students will gain a firm understanding of basic quantitative statistics, will be able to evaluate quantitative methods presented in anthropological research papers, and will be prepared for classes in more advanced statistical methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5306. Anthropology and Art.**

In this course students will investigate the function of art and symbolism in pre-literate archaeological cultures that existed at the tribal and chiefdom levels of political and social development. A multidisciplinary focus will use anthropology and art historical approaches as research tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5307. History of Evolutionary Thought.**

This course discusses the impact of evolutionary discourse within the context of its history. Students will develop a thorough understanding of evolution and its importance to anthropology, as well as to other scientific disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5308. Cultural Resource Management and Archaeology.**

In this course students will examine various topics relevant to cultural resource management including state and federal laws, survey, testing, mitigation, and developing final reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5309. Culture, Medicine and the Body.**

This course explores how the human body, functions of the body, and the practices of medicine and healing are situated and contextualized within cultural frameworks. Case studies cover body and health-related topics over the life course, from birth to death

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5310. Theories and Issues in Anthropology.**

This course explores major theoretical and historical developments in anthropology, highlighting the discipline's unique four-field perspective that includes archaeology, biological and cultural anthropology, and anthropological linguistics. Topics stress the importance of anthropological thought in key scientific discoveries and cultural debates

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5311. Seminar in Cultural Anthropology.**

In this course, students will learn the historical foundations of cultural anthropology, its key theories and methods, and examples of its contemporary practice. Topics will include evolutionism, functionalism, structuralism, ethnoscience, neo-Marxism, postmodernism, and modernity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5312. Seminar in Biological Anthropology.**

In this course, students will learn the historical foundations of biological anthropology, its key theories and methods, and examples of its contemporary practice in evolutionary theory, human variation, paleoanthropology, primatology, and skeletal biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5313. Seminar in Archaeology.**

In this course, students will learn the historical foundations of archaeology, its key theories and methods, and examples of its contemporary practice in New World and Old World archaeology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5314. Latin American Cultures.**

Comprehensive study of cultures from Latin America. (Stacked course with ANTH 3314.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5315. Archaeological Artifact Identification and Analysis.**

This course will provide students with the skills, knowledge and ability to describe, characterize, and analyze artifacts commonly recovered from archaeological sites. Current theories covering the production and analysis of chipped and ground stone tools, ceramics, bone and other materials will be presented, and scientific analytical methods discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5316. The Origin and Evolution of Human Behavior.**

This course presents our current understanding of Old World Paleolithic Archaeology. The origin and evolution of hominid behavior, the initial colonization of the Old World, and the development of modern human behavior will be discussed for each continent. (Stacked course with ANTH 3316)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5317. Rock Art Field Methods.**

This course will train students in rock art field methods. They will gain first-hand experience recording rock art sites through photography, field sketches, mapping, and written inventories. Students will generate a visual and written description of the art, which they will use to infer and explain past human behavior. (Stacked course with ANTH 3317)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5318. Texas Archaeology.**

This course will present our current understanding of Texas archaeology. The environmental and social contexts of prehistoric, protohistoric, and historic records of Native American and Spanish occupations in Texas are discussed. (Stacked course with ANTH 3318.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5319. Human Growth and Development.**

This course covers the life history of humans from birth to death and investigates the biological and psychological changes that occur over a lifetime. (Stacked course with ANTH 3319)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5320. Rise of Civilization.**

This course examines the components that led to the dynamic state societies in Egypt, Sumeria, the Indus Valley, and China in the Old World and that of the Olmec in Mexico and Chavin in Peru. (Stacked course with ANTH 4320.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5321. Seminar in Forensic Anthropology.**

This course is designed as a critical survey of the theory and methodology utilized by forensic anthropologists. Through intensive review of the literature, the student will gain an appreciation for the development of the discipline, the techniques used in forensic skeletal analysis, and new research directions within the field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5322. Peoples and Cultures of Sub-Saharan Africa.**

Comprehensive study of cultures from Africa. (Stacked course with ANTH 3322.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5324. Mexican American Culture.**

This course examines the history and cultural practices of Mexican Americans, with a special emphasis on race, class, gender, and sexuality. Topics include historical heritage and transculturation, discrimination, organizations, activism, activism, zoot suits, lowriders, gangs, coloñias, families, marriage, quinceañeras, machismo, domestic violence, gays and lesbians, religious practices, and the arts. (Stacked course with ANTH 3324.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5325. Medical Anthropology.**

This course focuses on how illness identities are culturally constructed, how adaptations or maladaptations to local environments affect health, how political and economic forces influence health and health behaviors, and how the practice of medical anthropology can contribute to solving urgent health issues around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ANTH 5326. Field Methods in Forensic Anthropology.**

In this course students will learn how to locate, excavate and recover human remains, associated personal effects, and other materials in order to ensure legal credibility for all recoveries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5327. Anthropology of Religion and Fundamentalism.**

This course will examine the phenomenon of fundamentalism in a variety of religious traditions, both present and historical. Students will explore the political and social ramifications of fundamentalism in a world characterized by multiculturalism and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5328. Primate Cognition.**

This course covers historical and current views of the cognitive abilities of nonhuman primates and humans. (Stacked course with ANTH 3328)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5329. Comparative Juvenile Behavior.**

This course will give students a thorough understanding of the comparative method through examples from the development of juvenile animals. It will introduce students to socioecology, neurobiology, and life history markers, with information that they can apply across disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5332. Myths and Mound Builders.**

This course presents an anthropological approach to the iconography of the Native Americans of the Southeastern Ceremonial Complex. (Stacked course with ANTH 3332.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5333. Research Design in Biological Anthropology.**

This course provides students with an introduction to the principles and processes by which research projects in biological anthropology are devised and executed. It focuses on the issues of finding a topic to research, defining its scope and limitations, developing a research bibliography, and elaborating a research design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5335. The Anthropology of Native American Belief Systems.**

In this course students use anthropological approaches to investigate past and present Native American belief systems in order to determine the temporal range and evolving complexity of Native American religious and ritual expression

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5336. Community Research Project.**

This course gives students the opportunity to conduct hands-on anthropological research on a variety of topics in local or other communities. Students will undertake individualized research projects designed in conjunction with the professor. Students must consult with the professor prior to enrollment to design the research project and receive approval. (Stacked course with ANTH 3336)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5338. Geoarchaeology.**

This course will provide students with the knowledge and ability to interpret sediments and the nature of sediment accumulation at archaeological sites. The course will provide students with a foundation in sedimentology, natural depositional environments, weathering processes and soil development, stratigraphic analysis, archaeological site formation processes. (Stacked course with ANTH 3338)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5340. Paleoanthropology.**

Critical review of the human fossil record from the appearance of the earliest hominins to the appearance of modern human forms. (Stacked course with ANTH 3340.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5342. Primate Behavior.**

An organized course that examines current research in nonhuman primate studies from an anthropological perspective. (Stacked course with ANTH 3342.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5343. Human Variation and Adaptation.**

An organized course that examines human physical variation and adaptation from an evolutionary perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5345. Archaeology of Mexico.**

This course examines the development of early huntergatherers through the appearance of agriculture to the rise of civilization in Mesoamerica. (Stacked course with ANTH 3345.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5347. Archaeology of North America.**

This course examines human settlement of North America from the end of the Pleistocene to European discovery. (Stacked course with ANTH 3347.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5349. The Incas.**

The Incas were the largest Pre-Columbian empire in the Americas. This course will explore the origins of this civilization and how they conquered such a large area of South America. Using archaeological and historic information the class will examine various aspects of Inca society including religion, economics, and kingship. (Stacked course with ANTH 3349)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5350. Gender and Sexuality in Cross Cultural Perspective.**

This course examines the relationships between women and men in societies around the world. (Stacked course with ANTH 3350.) (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter



**ANTH 5354. Latin American Gender and Sexuality.**

This course critically examines cultural constructions of gender and sexuality among indigenous, European, and mestizo populations throughout the Americas, with a special emphasis on identity and inequality in Greater Latin America. Topics include culture, identity, political economy, families, sexual practices, and globalization. (Stacked course with ANTH 3354.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5355. Seminar in Culture Theory.**

An intensive examination of the principal theoretical positions in cultural anthropology, with an emphasis on the preparation of students with ethnographic analysis and fieldwork. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ANTH 5356. Andean Civilizations.**

This course is a survey of civilizations in the Andean region of South America. Using archaeological data the class will examine cultural developments in the region from the earliest hunters and gatherers to the Inca Empire, the largest state in the Americas at the time of European contact

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5360. Economic Anthropology.**

This course reviews central issues in economic anthropology using both case studies and theoretical writings. Analyzes production, exchange, distribution, consumption, property, economic surplus, and types of economic structure. (Stacked course with ANTH 3360.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5361. Field Methods in Cultural Anthropology.**

A training course in ethnographic field methods. (Stacked course with ANTH 4361.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5363. The Art and Archaeology of the Olmec.**

This course will present our current understanding of the art and archaeology of the Olmec culture, the earliest known civilization in North America. The Olmec culture is considered the influential foundation for later Mesoamerican civilizations such as the Maya and the Aztec. (Stacked course with ANTH 3363.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5373B. Theory in Linguistic Anthropology.**

In this course students will learn about the major theories of linguistic anthropology through reading and discussing classic and contemporary literature. Topics include language evolution, behaviorism, mentalism, structuralism, cognitive anthropology, ethnosemantics, universalism and linguistic relativism, symbolic anthropology, culture and gender, language and identity, ethnography of speaking, and language change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5373C. Theoretical Concepts in Archaeology.**

This course provides a broad survey of theory in archaeology as it is practiced throughout the world. It includes both historical perspectives and contemporary usage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5373E. Gross Human Anatomy.**

Students in this course examine the gross anatomy of humans from an evolutionary perspective. Anatomy of the structures of the back, limbs, head, and neck are examined. Cadaver-based dissection labs accompany lecture topics

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5373F. Advanced Methods in Skeletal Biology, Part II.**

This course focuses on technical case report writing and evidentiary best practices in forensic anthropological analysis of human skeletal remains. In addition to biological profile estimation techniques, research methods and theoretical foundations used for trauma analysis and taphonomic interpretation will be reviewed. Prerequisite: ANTH 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5373G. Research Design and Proposal Writing in Cultural Anthropology.**

This course will familiarize students with the basic principles and practices of effective research design and proposal writing in cultural anthropology. Students will acquire a practical experience in formulating a feasible and creative research project, performing a rigorous literature review, planning to protect human research subjects, and giving/receiving constructive peer reviews

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ANTH 5374A. Archaeology of the Earliest Americans.**

This course focuses on the long-standing and controversial issues of when, how, and who first peopled the Americas. This is a significant aspect of human prehistory and remains unresolved. Students will use archaeological, biological, linguistic, and environmental evidence to help identify the first inhabitants of the New World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374F. Mixtec Codices: Prehispanic Literatures of Oaxaca.**

In this course students will learn about the cultures of the Zapotec and Mixtec Indians of prehispanic Oaxaca by examining and deciphering the Mixtec pictogram fan-fold books called codices. (Stacked course with ANTH3376A.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374Y. Human Evolutionary Anatomy.**

This course is designed to give students an anatomical background to the study of human evolution with a focus on the comparative anatomy of apes, living humans, and fossil hominins

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5374Z. Curation of Archaeological Materials.**

This course will examine the phenomenon or fundamentalism in a variety of religious traditions, both present and historical. Students will explore the political and social ramifications of fundamentalism in a world characterized by multiculturalism and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5375. Advanced Methods in Skeletal Biology, Part I.**

This course focuses on laboratory analytical techniques and data collection methods used to estimate the biological profile of modern, historic, or prehistoric human skeletal remains

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5375Z. Curation of Archaeological Materials.**

This course provides students with the skills to prepare archaeological materials for curation, which includes the processes and techniques used to stabilize and preserve organic and inorganic materials. This training can be used to gain certification in the field of archaeological curation.

Prerequisite: ANTH 2415

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5380. Seminar in Anthropological Research.**

A course focused on a topic not normally offered in the regular curriculum. Course may be in any area of anthropological inquiry. May be repeated for credit when topics vary, but not more than 6 hours will apply towards the Master's degree

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5381. Paleopathology.**

Paleopathology is the study of ancient diseases and is an important tool for understanding of past populations. In this course we will survey the range of pathology on human skeletons such as trauma, infection, syphilis, tuberculosis, leprosy, anemia, metabolic disturbances, arthritis, and tumors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5390. Directed Study.**

Course of independent study open to individual students at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5395. Internship.**

A supervised work or research experience related to a student's professional development. Requirements include completing 250 hours of work with a public or private organization, weekly class meetings, and a semester-long project. The written approval of a student's faculty mentor and graduate student advisor are required to register. Repeatable for credit with permission of the Internship Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ANTH 5395V. Andean Civilization.**

Special topics in Anthropology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ANTH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed their thesis proposal. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ANTH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Arabic (ARAB)

**ARAB 1410. Beginning Arabic I.**

Introduction to listening, speaking, reading, and writing skills within an Arabic cultural framework. Students who take ARAB 1410 toward degree requirements must also complete ARAB 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARAB 1411

**ARAB 1420. Beginning Arabic II.**

Continued practice in listening, speaking, reading, and writing skills within an Arabic cultural framework. Students who take ARAB 1410 toward degree requirements must also complete ARAB 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARAB 1412

**ARAB 2310. Intermediate Arabic I.**

Continued development and review of all language skills within an Arabic cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARAB 2311

**ARAB 2320. Intermediate Arabic II.**

More advanced practice in all language skills with greater emphasis on reading within an Arabic cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARAB 2312

**ARAB 3301. Levantine Arabic.**

An introduction to Arab dialects with a focus on Levantine Arabic ( Jordan, Syria, Lebanon, and Palestinian territories). The course will emphasize oral communication and using the dialect correctly in its cultural context. It will also compare Levantine Arabic to Modern Standard Arabic. Repeatable once with different content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARAB 3302. Media Arabic.**

Introduction to Arab media designed to advance students' proficiency in Arabic. It will present cultural characteristics of Arab media and describe how those characteristics differ from those of US media. The course will increase students' vocabulary knowledge and enable them to understand various Arab media sources. Repeatable once with different content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Art (ART)

**ART 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking MU 2313, TH 2313, or DAN 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**ART 3313. Introduction to Fine Arts.**

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Art Foundation (ARTF)

**ARTF 1301. 2-D Design.**

Introduction to the elements and principles of design through the use of a variety of two-dimensional media and techniques

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1311

**ARTF 1302. Basic Drawing.**

Introduction to a variety of media and techniques for exploring descriptive and expressive possibilities in drawing

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1316

**ARTF 1303. 3-D Design.**

Introduction to the elements and the principles of design through the use of a variety of three-dimensional materials and techniques

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1312

**ARTF 1304. Color Theory.**

Introduction to color as a descriptive and expressive element of art, focusing on color perception and application

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2311

## Art History (ARTH)

**ARTH 2301. Ancient to Medieval Art.**

A survey of the history of painting, sculpture, and architecture from pre-historic through medieval periods. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1303

**ARTH 2302. Renaissance to Modern Art.**

A survey of art history from the fourteenth century through the twenty-first century. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ARTS 1304

**ARTH 3300. Art Criticism and Writing.**

This course introduces students to the history and practice of art criticism and provides them with relevant tools and experiences to craft their own body of art criticism. Prerequisites: ARTH 2301 and ARTH 2302. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 3301. History of Modern Art.**

This course offers a survey of the stylistic trends, aesthetic issues, and evolving philosophy of modern art in Europe and the Americas from 1900 to 1965

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3303. Issues in Contemporary Art.**

An issue-oriented survey of the diverse forms and concepts in contemporary art making practices, mostly from the United States, from 1965 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3306. History of Photography.**

This course surveys the history of photography from its earliest manifestations until the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 3307. Issues in Contemporary Art.**

An issue-oriented survey of the diverse forms and concepts in contemporary art making practices, mostly from the United States, from 1965 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 4300. History of American Art.**

This course provides an introduction to American art and visual culture from ancient times to the 1950s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4302. Latin American Art.**

This course surveys the rich and varied visual art of Latin American and Caribbean countries from the wars of independence to the present day with a focus on recurring themes that have resonated in art throughout the region, such as modernism, internationalism, nationalism, race, identity, and political activism. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4303. Pre-Columbian Art.**

A survey of the art of Pre-Columbian sites and cultures in Mesoamerica and the Central Andes, from pre-history to the European conquest. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4304. Global History of Cinema.**

A survey of the history of European and American film as an art form. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4306. Renaissance Art.**

An in-depth survey of the history of Italian Renaissance art, including key works of art representative of the Northern Renaissance. Course emphasizes the study of iconography and stylistic change, in conjunction with larger cultural developments. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4308. Asian Art.**

A broad survey of the art of Asian cultures including India, Japan, and China from pre-history to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4309. Feminism and Visual Representation.**

This course provides an introduction to feminist art, theory, and visual culture by focusing on the relationships between several key feminist concerns, including sexuality and gender experience and difference. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4310. Race and Representation.**

This course explores the variegated ways that race, and, by implication, identity and difference, is figured and represented in a range of cultural productions, including art, film and visual culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4311. History of Italian Art.**

Taught on-site and centered in Florence, Italy, this course represents a targeted immersion into Renaissance art and culture and includes the study of pivotal works of art and architecture across the Italian peninsula. May be substituted for ARTH 2301 or ARTH 2302. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 4312. The Arts in Popular Culture.**

This course examines popular culture, including the emergence of mass culture, and its complex intersection with the fine arts from the nineteenth century onwards. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4313. Hellenistic Art and Culture.**

This course focuses on the Greek aesthetic tradition from the fourth century BCE to the end of the first century C.E., with a cross-disciplinary emphasis on the interaction of Greek and non-Greek cultures from Northern India to the Italian peninsula. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4314. Art and Politics.**

This course explores various ways in which artists and patrons have worked to change or endorse political policy, exploring art both as a tool for social cohesion in support of a particular political party or ideal and as a means of political protest. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter



**ARTH 4320A. Documentary Photography.**

This course explores key issues in the theory, history, and practice of documentary photography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4320B. Curatorial Practices.**

This course considers the history and cultural significance of the practice of curating and exhibition making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321N. Perspectives on Andy Warhol.**

This course explores Post-World War II art and culture by focusing on the career of Andy Warhol. The class will examine the multiple media and strategies for artistic dialogue and visibility that the artist implemented over his decades-long practice from the 1960s through the 1980s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321O. Spanish Colonial Art of Latin America.**

This course surveys the art and architecture of the Spanish and Portuguese Viceroyalties in the Americas from the conquest to the wars of independence, examining the role that art and architecture played in religion, government, social structuring, and identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321P. Artists' Writing.**

This course explores ways in which visual artists have engaged with the written word in relationship to their art work. Readings will be taken from diaries, manifestos, critical and experimental essays, and works of fiction. Students will create their own writings and/or art work in response to weekly readings. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321Q. Video Art.**

This course considers the myriad ways artists have mobilized video to confront and complicate representations of people affected by the HIV/AIDS pandemic. Most of this course will be spent discussing videos and readings from the 1980s and 1990s and will be localized to the United States. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321S. Conceptualism.**

This course explores the emergence of conceptualism globally during the 1950s through the 1980s and considers its impact on contemporary art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321T. Art in the 1990s.**

This course broadly considers the state of global art and politics in the 1990s from a postcolonial perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4321U. Contemporary Art in Italy.**

Taught on-site and centered in Florence, Italy, students consider a number of contemporary art and exhibition practices, with emphasis on discursive formations of the global. May be substituted for ARTH 3307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321V. History of Experimental Film.**

This course provides an overview of experiments in avant-garde and artists films from 1920 until the present. Students will learn how to analyze the meaning in moving images that exhibit unconventional narratives and will examine reactions these films have provoked in audiences past and present

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321W. Contemporary Art in Mexico.**

This course explores contemporary art practices in Mexico through site visits, studio visits, readings and writing. Capitalizing on the city's dynamic artists, project spaces and museums, students will interact with some of the leading professionals in the arts

**3 Credit Hours. 12 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTH 4321X. Islamic Art.**

This course will survey the arts associated with the religion of Islam from the life of Muhammad in the seventh century through the early modern period, with an emphasis upon the Middle East, North Africa, and the Iberian Peninsula

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4322. Special Problems.**

An advanced level, independent study in art history, aesthetics, and criticism. The emphasis of the course is on scholarship, research, and writing. May be repeated with different emphasis for additional credit. Prerequisite: Consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter



**ARTH 4323. Art History Thesis I.**

A senior-level course focused on research, methodology, and writing in art history. Prepares students for final senior thesis projects. Prerequisites: ARTH 2301, ARTH 2302, ARTH 3301 and ARTH 3307 with minimum grades of C; and ARTH 3300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4324. Art History Thesis II.**

A senior level course focused on independent research and writing in art history and on the completion of a final thesis project. Prerequisite: ARTH 4323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTH 4325. Art History Internship.**

This course will offer students the opportunity to experience and receive academic credit for professional activities related to the field of art history. Consent of instructor required

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTH 5302. Special Problems Advanced.**

An independent study course involved with art history, aesthetics, and criticism. The emphasis of the course is on scholarship, research, and writing. May be repeated with different emphasis for additional credit. Prerequisite: Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Art Studio (ARTS)

**ARTS 1305. Digital Studio Foundations.**

This course will provide an introduction to digital imaging software as a tool for the visual artist. Students will learn terminology, operating systems, and how to store, organize and transfer digital data. Special emphasis will be placed upon the use of the computer for conceptual and aesthetic problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2301. Expanded Media I.**

This introductory studio art course introduces time as a medium. Students become familiar with the unique capabilities of video, sound and performance through screenings, demonstrations, individual projects and critiques. Prerequisites: ARTS 1305 (or ARTC 1302) and ARTF 1301

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2311. Ceramics I.**

An introduction to clay as a medium for creative expression. Basic hand-building and wheel-throwing methods of forming are employed to investigate form and develop conceptual awareness. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2346

**ARTS 2321. Drawing I.**

Introduces the analytical study of the human form and the figure's potential for compositional and expressive use of drawing. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2323

**ARTS 2331. Fibers I.**

An introduction to fiber techniques as a means of individual expression and problem solving. Prerequisites: ARTF 1301, ARTF 1302, ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2336

**ARTS 2341. Metals I.**

An introduction to metal as a medium for creative expression emphasizing conceptual awareness while developing technical and creative skills. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2341

**ARTS 2351. Painting I.**

An introduction to painting emphasizing the elements and principles of pictorial composition. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2316

**ARTS 2361. Foundations of Photography I.**

This course introduces basic concepts in photography through lecture, readings and studio practice in traditional and digital processes.

Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 2371. Printmaking I.**

This course introduces relief and screen printing techniques, covering both traditional and contemporary as well as manual and digital techniques. Provides a historical, technical, visual and conceptual foundation for printmaking. Prerequisites: ARTF 1301 and ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2333

**ARTS 2381. Sculpture I.**

An introduction to sculptural materials and processes as a medium for creative expression. Provides the foundation for critical aesthetic judgment while developing technical and creative skills. Prerequisites: ARTF 1301, ARTF 1302, and ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2326

**ARTS 2391. Watercolor I.**

An introduction to the fundamentals of transparent watercolor painting as a medium for creative expression. Prerequisites: ARTF 1301, ARTF 1302, and ARTS 1305 or ARTC 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** ARTS 2366

**ARTS 3302. Expanded Media II.**

This studio course continues explorations of formal, critical and technical approaches to time-based practices. Students incorporate diverse media and materials to generate interdisciplinary projects. Emphasis is placed on modes of presentation. Prerequisite: ARTS 2301

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3303. Expanded Media III.**

This is a rotating topics course in Expanded Media. Potential course topics include, but are not limited to, performance, participatory practices, institutional critique and contextual methodologies. Prerequisite: ARTS 3302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3304. Expanded Media IV.**

This is a rotating topics course in Expanded Media. Potential course topics include, but are not limited to, computer programming, web-based systems, animation, sound design and interactive multimedia. Prerequisite: ARTS 3303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3312. Ceramics II.**

Through pottery forms and/or clay sculpture, students develop conceptual and expressive skills. Students formulate glazes and fine kilns. Prerequisites: ARTS 2311

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3313. Ceramics III.**

Through individualized projects, students develop personal content and expression in their work. Students formulate clay bodies and slips, and investigate experimental firing methods. Prerequisite: ARTS 3312

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3314. Ceramics IV.**

Continued development of personal expression through a self-initiated series of works. Students investigate technically complex forming methods. Prerequisite: ARTS 3313

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3322. Drawing II.**

Experimentation with techniques and materials to develop perceptual and conceptual skills leading to individual expression in drawings.

Prerequisite: ARTF 1303

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3323. Drawing III.**

Focuses on the development of a personal visual statement using the human form as subject matter. Interpretive skills are stressed and alternative approaches to generating visual imagery are explored.

Prerequisite: ARTS 3322

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3324. Drawing IV.**

Emphasizes conceptual skills and critical analysis in the development of individual imagery and aesthetics in drawing. Consistent thematic drawings are required. Prerequisite: ARTS 3323

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3332. Fibers II.**

Development of visual and conceptual skills through traditional and experimental techniques. Prerequisites: ARTS 2331

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3333. Fibers III.**

Development of a personal aesthetic direction in fibers using loom and/or non-loom processes. Prerequisites: ARTS 3332

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3334. Fibers IV.**

The conceptual and technical aspects of fibers are developed through experimentation, research and evaluation. Prerequisite: ARTS 3333

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3342. Metals II.**

The development of a personal aesthetic and conceptual direction in the metal medium focusing on the relationship between surface and form. Casting is introduced and the exploration of patination and surface coloration continues. Prerequisites: ARTS 2341

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3343. Metals III.**

Emphasis on a personal conceptual direction in the solution of formal problems using complex construction and fabrication processes. Prerequisite: ARTS 3342

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3344. Metals IV.**

An introduction to the ductile qualities of the metal medium through advanced forming and raising processes. In a series of artworks, students develop a personal aesthetic. Prerequisite: ARTS 3343  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3352. Painting II.**

A series of projects synthesizing the elements and principles of pictorial composition that encourage individual creative solutions. Prerequisites: ARTS 2351, ARTF 1303  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3353. Painting III.**

Development of personal imagery in painting through individualized projects. Prerequisite: ARTS 3352  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3354. Painting IV.**

The conceptual and technical aspects of painting are developed through experimentation, research and evaluation. Prerequisite: ARTS 3353  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3355. Digital Painting.**

A course developing basic skills in the use of computer graphic tools and related peripheral devices for creating digital paintings. The course is intended for students with a foundation in traditional painting and drawing media. Prerequisite: ARTS 2351  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3361. Foundations of Photography II.**

This course introduces black and white aesthetics and techniques within a traditional and digital context. Prerequisite: ARTS 2361  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3363. Alternative Photographic and Digital Processes.**

This course places an emphasis on the conceptual and technical aspects of digital and photographic imaging using the chemistry and techniques of alternative printing methods. Prerequisites: ARTS 3361 and ARTS 3364  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3364. Introduction to Digital Photography.**

This course introduces students to the aesthetics of current digital imaging technology, including new digital cameras, scanning equipment, Macintosh computers, image-manipulation programs and printing devices. Prerequisite: ARTS 2361  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3365. Studio Photography.**

This course uses a studio environment to explore issues in controlled lighting in photography. Prerequisites: ARTS 2361 and ARTS 3364  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3366. Intermediate Digital Photography.**

This course builds and expands upon the digital concepts and techniques covered in Introduction to Digital Photography. Prerequisite: ARTS 3364  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3372. Printmaking II.**

This course introduces, in alternate semesters, intaglio printing during the fall semesters (including copper plate printing: drypoint, mezzotint, etching, aquatint and photo-polymer plates) and lithography printing during the spring semester (including plate and stone litho, as well as photo-lithography) Prerequisites: ARTS 2371, ARTF 1303  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3373. Printmaking III.**

This course introduces, in alternate semesters, intaglio printing during fall semesters (including copper plate printing: drypoint, mezzotint, etching, aquatint, and photo-polymer plates) and lithography printing during the spring semester (including plate and stone litho, as well as photo-litho). Prerequisite: ARTS 3372  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3374. Printmaking IV.**

Having learned the basic printmaking techniques, students are introduced to Book Arts, hand binding, and containers/boxes. Digital printmaking is also introduced as part of the repertoire of the contemporary artist/printmaker. Prerequisite: ARTS 3373  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3376. Screen Printing.**

This course introduces students to contemporary and traditional techniques in serigraphy (also known as screen printing) to produce a series of four in-depth, major creative projects. Repeatable for credit. Prerequisites: ARTF 1301, ARTF 1302, ARTF 1303, and ARTS 1305 or ARTC 1302  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3382. Sculpture II.**

Development of a personal aesthetic direction with emphasis on the visual, conceptual and technical aspects of sculptural form. Prerequisites: ARTS 2381  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**ARTS 3383. Sculpture III.**

Emphasizes personal aesthetic direction through the development of advanced metal casting and fabricating techniques. Prerequisite: ARTS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3384. Sculpture IV.**

Focuses on developing conceptual and technical skills through the creation of large-scale sculpture. Prerequisite: ARTS 3383

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 3392. Watercolor II.**

Continues the development of creative and technical skills through a series of structured watercolor projects. Prerequisite: ARTS 2391

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4000. Senior/Thesis Art Exhibition.**

A senior level course in which all graduating students majoring in Studio Art with a studio specialization, Studio Art leading to All Level Certification, or in Photography, must participate during their last academic year. In consultation with thesis faculty, studio art and photography students will select work to exhibit from their Thesis I and Thesis II courses. Students earning teaching certification will select work to exhibit in consultation with art education faculty advisors

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4200. Portfolio, Practice, and Exhibition.**

This course provides the skills to prepare, package, and present the BFA Thesis in Studio Art and Photography, including written and professional documents and documentation of the creative work. The course also covers topics required for pursuing a career in the arts, building community, and preparing for post-BFA opportunities. Prerequisite: ARTS 1305. Co-requisite: Thesis II in specialized studio area

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4305. Expanded Media V.**

This advanced studio course integrates contemporary theory and practice. Reading assignments and viewings serve as thematic prompts for students to create projects in an interdisciplinary manner. Experimentation and unexpected outcomes are encouraged. Prerequisite: ARTS 3304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4306. Expanded Media VI.**

This course is the first half of Senior Thesis for students under the Expanded Media Specialization. It requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4305

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4307. Expanded Media VII.**

This course is the second half of Senior Thesis for students under the Expanded Media Specialization. It requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4306

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4308D. Natural and Human Environment of Italy.**

This courses uses Italy as the backdrop to enhance aesthetic understanding of both color (slide transparency) and black and white photography. A strong emphasis is placed on developing visual, conceptual and technical aspects of photography using advanced camera knowledge, chemistry, and sensitivity to local visual stimuli

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308E. Fine Art Forging.**

An introduction to the theories and processes of forging and blacksmithing for both ferrous and non-ferrous metals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308I. Disegno a Firenze: Drawing in Florence.**

Part of the summer program in Italy, this class focuses on drawing from various subjects in and around the city of Florence. Through daily practice, students will address not only the fundamentals of monochromatic drawing, but also the increased perception that the act of drawing engenders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308N. Digital Animation.**

This course will provide an introduction to the technical and conceptual processes for creating digital animations. Instruction includes software and hardware requirements and knowledge, visual problem solving, and conceptual development. Each student will complete a short animated video by the end of the course. Prerequisites: ARTF 1301, ARTF 1302, and ARTS 1305 or ARTC 1302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308O. Graphic Novels and 'Zines.**

This class will explore comics, zines, graphic novels and forms of narrative art as a contemporary medium. The student will be introduced to historical and contemporary examples, including cinema and printed matter. The student will create original work in comic strips, 'zines, graphic novellas and/or printed ephemera

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**ARTS 4308S. Mapping the City: Interdisciplinary Art in Urban Spaces.**

This course will explore different methods of mapping (real and conceptual) utilized by contemporary artists and engage students in collaborative multidisciplinary projects. Students will build on their own interests and strengths, utilizing photography/video/interview formats/drawing/collage/etc., to build a portfolio of contemporary works. Prerequisite: ARTS 1305

**3 Credit Hours. 48 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308T. Digitally Handmade for Artists and Designers.**

This class provides the fundamental skills for integrating digital fabrication technologies with other art making processes. Students will be introduced to digital design and fabrication using 3D modeling software, 3D printers, and CNC milling. A variety of materials will be taught through conceptual, technical, and creative problem solving

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4308U. Soft Sculpture.**

This course emphasizes personal aesthetic direction in sculpture through the study of numerous materials that are fiber based with an emphasis on contemporary practices in papermaking, sewing, surface design, and material manipulation. Prerequisite: ARTS 2381

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTS 4312. Studio Art Internship.**

A course designed to offer students the opportunity to experience and receive academic credit for professional related activities in the field of the studio arts. Requires consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4313. Studio Practice.**

This course provides the necessary professional skills needed to pursue a career in the arts. These skills include: writing about your work; building community; giving a formal presentation; designing a business plan and setting concrete goals; conducting research; preparation of materials for post-BFA opportunities. Cannot be retaken for credit. Prerequisites: ARTS 3364 or Level IV in specialization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4315. Ceramics V.**

Development of the conceptual and technical aspects of ceramics through experimentation, research and evaluation. Prerequisite: ARTS 3314

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4316. Ceramics VI – Thesis I.**

The first half of the Senior Thesis for ceramics majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4315

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4317. Ceramics VII – Thesis II.**

The second half of the Senior Thesis for ceramics majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition.

Prerequisite: ARTS 4316. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4318. Ceramics Special Problems.**

An advanced level, independent study in ceramics which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3313

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4325. Drawing V.**

Requires students to pursue a personal conceptual direction in drawing and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3324

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4326. Drawing VI – Thesis I.**

The first half of the Senior Thesis for drawing majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4325

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4327. Drawing VII – Thesis II.**

The second half of the Senior Thesis for drawing majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition.

Prerequisite: ARTS 4326. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4328. Drawing Special Problems.**

An advanced level, independent study in drawing which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3323

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ARTS 4335. Fibers V.**

Requires students to pursue a personal and conceptual direction in fibers and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3334

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4336. Fibers VI – Thesis I.**

The first half of the Senior Thesis for fibers majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite:

ARTS 4335

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4337. Fibers VII – Thesis II.**

The second half of the Senior Thesis for fibers majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite:

ARTS 4336 with a minimum grade of B. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4338. Fibers Special Problems.**

An advanced level, independent study in fibers which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3333

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4345. Metals V.**

Focusing on the conceptual and technical aspects of the metal medium through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ARTS 3344

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4346. Metals VI – Thesis I.**

The first half of the Senior Thesis for metals majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite:

ARTS 4345

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4347. Metals VII – Thesis II.**

The second half of the Senior Thesis for metals majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4346. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4348. Metals Special Problems.**

An advanced level, independent study in metals which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3343

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4355. Painting V.**

Requires students to pursue a personal conceptual direction in painting and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. Prerequisite: ARTS 3354

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4356. Painting VI – Thesis I.**

The first half of the Senior Thesis for painting majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite:

ARTS 4355

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4357. Painting VII – Thesis II.**

The second half of the Senior Thesis for painting majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4356. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4358. Painting Special Problems.**

An advanced level, independent study in painting which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3353

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4360. Readings in Photography.**

In this intensive writing course, students will read, write, and create studio projects in reaction to historical and contemporary written accounts of the history, practice, and interpretation of photography. Prerequisites:

ARTH 3306, ARTH 3307. Corequisite: ARTS 4366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4363. Color Photography and Digital Imaging.**

This is a course in the aesthetics of color digital and photographic imaging and color prints made from transparencies. This course emphasizes developing the visual, conceptual and technical aspects of digital and photographic imaging using advanced camera knowledge and color chemistry for printing both color negative and digital files.

Prerequisite: ARTS 4364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4364. Advanced Digital Photography.**

This course explores advanced concepts and techniques in digital photography. Prerequisite: ARTS 3366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4366. Photography Thesis I.**

This course is a senior-level course for photography majors requiring a series of related photographs. This course is the first half of the senior thesis. Prerequisite: ARTS 4360 or ARTS 3365 or ARTS 3366

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4367. Photography Thesis II.**

The course is the second half of the Senior Thesis for photography majors requiring a series of original photographs to be documented in a written creative statement. An exhibition in the gallery of some or all of the work culminates the senior thesis. Prerequisite: ARTS 4366. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4368. Fine Art Photography Special Problems.**

An advanced level, independent study in photography which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Must be an Art major or minor to enroll. Prerequisites: ARTS 2361; ARTF 1301, ARTF 1302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4375. Printmaking V.**

Students in level V pursue one or more of the various printmaking techniques, mixed with other techniques as necessary, to develop the appropriate technical, aesthetic and conceptual skills necessary to create a cohesive body of work. Prerequisite: ARTS 3374

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4376. Printmaking VI.**

The student begins to create a conceptually linked body of work for their BFA. Written statements and other documentation are required, and priority is placed on the development of a personal and professional direction. Prerequisite: ARTS 4375

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4377. Printmaking VII.**

The student completes their thesis work, culminating in participation in the Thesis Exhibition. Written statement, thesis and other professional documents are required, as is visual documentation of the thesis work. Emphasis is placed on a conceptually linked body of work and professional presentation. Prerequisite: ARTS 4376. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4378. Printmaking Special Problems.**

An advanced level, independent study in printmaking which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3373

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4379. Introduction to Book Arts.**

This class examines the book as a complex visual and tactile art form. Demonstrations are given on traditional bindings from Asia and Europe. Students produce multiple mock-up books in addition to a major project of their choosing. Slide lectures introduce the history of books and an overview of contemporary artistic activity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4385. Sculpture V.**

The conceptual and technical aspects of sculpture are developed through experimentation, research and evaluation. Requires students to pursue a personal and conceptual direction and to produce a consistent body of artwork. Prerequisite: ARTS 3384

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4386. Sculpture VI – Thesis I.**

The first half of the Senior Thesis for sculpture majors. Requires a written statement of intent outlining the scope and objectives of the proposed thesis project followed by a related body of artwork. Prerequisite: ARTS 4385

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4387. Sculpture VII – Thesis II.**

The second half of the Senior Thesis for sculpture majors. Requires a related body of work documented in a written progress report. Selections from the thesis project will be exhibited in a senior exhibition. Prerequisite: ARTS 4386. Corequisite: ARTS 4000

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 4388. Sculpture Special Problems.**

An advanced level, independent study in sculpture which requires students to pursue a personal conceptual direction and to develop the appropriate technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Prerequisite: ARTS 3383

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTS 5301. 2-D Advanced Special Problems.**

An independent study in 2-D studio art, which requires a student to pursue a personal conceptual direction and to develop the technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Permission of instructor required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTS 5302. 3-D Advanced Special Problems.**

An independent study in studio art, which requires a student to pursue a personal conceptual direction and to develop the technical and critical skills necessary for creating a cohesive body of artwork. May be repeated with different emphasis for additional credit. Permission of instructor required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Art Theory and Practice (ARTT)

**ARTT 2371. Fundamentals of Art Theory and Practice.**

A survey and analysis of the theories and practices of art learning. Topics include: philosophy; history and theory of art learning; technology; artistic development; learning theories; assessment tools; program development; presentations and current realities; trends and issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 2372. Learning and Digital Media.**

This course examines theories and practices of using electronic media for the creation of art as well as for enhancement of the art learning process. Prerequisite: ARTT 2371. Recommended co-requisite: ARTT 3373

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3370. Art Theory and Practice.**

Introduces the theories and practices of children's art learning for the non-art major

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3372. Art Theory and Practice for Children.**

A survey and analysis of the theories and practices of teaching art to children. Topics include artistic development, art programming, content, philosophies, methodologies, objectives and assessment. Requires 10 clock hours of field experience in an elementary art learning setting.

Prerequisite: ARTT 2371. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 3373. Art Theory and Practice for Adolescents.**

The theories and practices of adolescent art learning. Topics include: learning environments, artistic development, presentation methodologies, objectives and assessment, and other current topics. Requires 10 clock hours of field experience in a secondary school art setting. Prerequisite: ARTT 2371

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 3375. Experimental Water Media.**

Upper level elective for studio majors. Fills teaching certification watercolor requirement. Students will experiment with water media, including watercolor, egg tempera, gouache, and mixed media on a variety of surfaces, including yupo and gessoed paper. Students will explore mixed media with watercolor. Justification: Future teachers need to develop skills in a wide range of water media, on a wide range of paper including yupo, and in combining watercolor with media, such as prismacolors, markers, water soluble markers and pencils and collage. These things are not covered in the watercolor studio course. The course would also serve as an elective for studio art majors who want to explore multiple media with watercolor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 4000. Senior Art Education Exhibition.**

A senior level course in which all graduating Art Education Seniors must participate during their last academic year. Work will be examined and produced leading to a showing in one of the Senior Student Exhibitions

**0 Credit Hours. 0 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**ARTT 4375. Pedagogy of Art Criticism, History & Aesthetics.**

A survey and in-depth analysis of the philosophies and structures of art criticism, art history, and aesthetics, as well as contemporary methodologies for analyzing, interpreting and judging works of art. Prerequisite: ARTT 2371 with a grade of "C" or higher, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 4376. Special Problems in Art Theory and Practice.**

Individualized study focusing on personal skill and knowledge development related to art learning experiences. Research will include a review of literature, a design for practical experience, and documentation of results and conclusions. May be repeated with different emphasis for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 4377. Pedagogy for Art Educators.**

This course is the capstone course for art education majors and offers advanced K-12 pedagogy that supports the development of curriculum and a teaching portfolio. Students are required to participate in service learning fieldwork for a minimum of 6 hours. Prerequisites: ARTT 2371 with at least a C; Corequisites: Prior credit or enrolled in ARTT 3372, ARTT 3373, ARTT 4375, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ARTT 4380A. Computer Art.**

An advanced level elective designed to examine and apply various techniques of creating and utilizing computer art for use in teaching art in the public schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTT 4380B. Introduction to Advanced Placement Courses in Public Schools.**

An advanced level elective designed to examine the advanced placement course programs available in the public schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTT 4380C. Community-Based Art Programs.**

This course will survey the growing field of community arts and prepare students to work in or with community-based arts programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTT 4380D. Art Education in the Community.**

This course will provide a service learning environment to explore the ways that art education theory can be applied to community environments in order to enable positive social change. The course reconsiders the role of the art educator in the context of the social sector.

Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics

**Grade Mode:** Standard Letter

**ARTT 5376. Research in Art Theory and Practice for Children.**

Individualized study focusing on art skill and knowledge development related to children's art learning experiences. May be repeated with different emphasis for additional credit. Teaching experience or admission to graduate degree program and permission of instructor required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTT 5377. Research in Art Theory and Practice for Adolescents and Adults.**

Individualized study focusing on art skill and knowledge development related to adolescent and/or adult art experiences. May be repeated with different emphasis for additional credit. Teaching experience or admission to graduate degree and permission of instructor required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Athletic Training (AT)

**AT 1298. Orientation to Athletic Training Education.**

Pre-Athletic Training majors will be introduced to the academic and clinical aspects of the CAATE accredited athletic training education program. The course is utilized as part of the rigorous student evaluation process before formal entrance into the athletic training education program

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**AT 2156. Taping and Bandaging Athletic Injuries.**

This course focuses on the use of taping, bracing, and bandaging techniques in the prevention and care of athletic injuries

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 2260. Acute Care of Injuries and Illnesses.**

This course will address the knowledge and skills related to the immediate evaluation and specialized care of acute injuries and illnesses common in sports settings. Lectures and laboratory experiences are focused on key aspects of emergency sports health care, including the rapid assessment, resuscitation, packaging and transportation of injured patients. Must be admitted to the Pre-Athletic Training major to enroll

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 2356. Prevention and Care of Athletic Injuries.**

This course focuses on the theoretical and practical aspects of the prevention, treatment, and rehabilitation of athletic injuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 2397. Clinical Experience in Athletic Training I.**

This course addresses the topics of injury prevention and emergency management, integrated into a clinical education experience designed to assess professional behaviors, knowledge and skills, and clinical proficiency. This course combines didactic with clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. A minimum 2.75 Texas State GPA is required.

Must be admitted to the Athletic Training Cohort

**3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 2398. Clinical Experience in Athletic Training II.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. This course combines didactic and clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. Prerequisite: AT 2397 with a grade of "C" or higher and a minimum 2.75 Texas State GPA. Must be admitted to the Athletic Training Cohort

**3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**AT 3126. Applied Laboratory of Upper Extremity Injuries.**

This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3326

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3326

**Grade Mode:** Standard Letter

**AT 3128. Applied Laboratory of Lower Extremity Injuries.**

This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3328

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3328

**Grade Mode:** Standard Letter

**AT 3136. Applied Laboratory for Therapeutic Modalities.**

This course provides students with experiences in laboratory and field applications of therapeutic modalities of all athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3336

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3336

**Grade Mode:** Standard Letter

**AT 3146. Applied Laboratory for Therapeutic Exercise and Rehabilitation.**

This course provides students with experiences in laboratory and field applications of therapeutic exercise and rehabilitation of athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3346

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Co-requisite(s):** AT 3346

**Grade Mode:** Standard Letter

**AT 3226. Medical Conditions and Disabilities.**

This course focuses on evaluation and management strategies of primarily non-orthopaedic conditions commonly encountered in a physically active population and, to a lesser extent, special populations. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3326. Evaluation Techniques of Upper Extremity Injuries.**

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Co-requisite: AT 3126. Prerequisite: AT 2356, Minimum 2.75 TxState GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3126

**Grade Mode:** Standard Letter

**AT 3328. Evaluation Techniques of Lower Extremity Injuries.**

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Co-requisite: AT 3128. Prerequisites: AT 2356; BIO 2430 or equivalent; Minimum 2.75 TxState GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3128

**Grade Mode:** Standard Letter

**AT 3333. Therapeutic Interventions for Medical and Psychosocial Conditions.**

This course will address the athletic training knowledge and skills required to evaluate and manage common medical conditions and psychosocial concerns found among the physically active. Lecture and laboratory experiences are focused on immediate and advanced care with emphasis on therapeutic interventions and referral. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430 or equivalent. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 3336. Principles and Techniques of Therapeutic Modalities.**

A theoretical and evidence-based approach to the use of therapeutic modalities in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic modalities in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Co-requisite: AT 3136. Prerequisite: Minimum 2.75 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3136

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AT 3346. Therapeutic Exercise and Rehabilitation.**

A theoretical and evidence-based approach to the use of therapeutic exercise in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic exercise in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Corequisite: AT 3146. Prerequisites: AT 3326, AT 3328, PT 3400, Minimum 2.75 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** AT 3146

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**AT 3358. Clinical Pathopharmacology.**

This course combines pathophysiology, the study of dynamic aspects of disease processes and study of drugs prescribed to prevent, diagnose, cure, or care for disease across the lifespan. Content includes etiology, pathogenesis, clinical presentation, implications for treatment, and pharmacological management. Prerequisite: BIO 2430 or equivalent; or PT 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**AT 3497. Clinical Experience in Athletic Training III.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to Athletic Training Majors. Prerequisite: AT 2497 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 3498. Clinical Experience in Athletic Training IV.**

This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to students in the Athletic Training Major. Prerequisite: AT 2498 with a grade of "C" or higher. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 4356. Organization and Management of Athletic Training Programs.**

This course addresses the organizational and administrative aspects of athletic training program management. Topics will include, but are not limited to, medical, ethical, legal, personnel and financial management, medical record keeping, facilities, supply requisition and inventory, third-party reimbursement, drug testing and other current professional issues. Prerequisites: AT 3326. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**AT 4360. Internship in Clinical Settings.**

Students will be introduced to the clinical aspects of allied health professions by being assigned to a minimum of two clinical sites. Prerequisite: Instructor consent. Prerequisite: Must be admitted to the Athletic Training major or to the Pre-Physical Therapy Emphasis. Prerequisites: A minimum TXST GPA of 2.75, and AT 3326 and AT 3126; AT 3328 and AT 3128; and AT 3336 and AT 3136

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 4497. Clinical Experience in Athletic Training V.**

This course integrates topics in therapeutic interventions and exercise into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3497 with a grade of "C" or better

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 4498. Clinical Experience in Athletic Training VI.**

This course integrates topics in nutrition, professionalism, and administration into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3498 with a grade of "C" or better

**4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5101. Graduate Assistant Development.**

This course is required of all graduate assistants and provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the spring semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**AT 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5201. Graduate Assistant Development.**

This course is required of all graduate assistants and provides in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the fall semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**AT 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5302. Special Topics in Athletic Training.**

This course is designed to educate students in the scientific process and develop an in-depth understanding of the research process in Athletic Training

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5303. Seminar in Athletic Training.**

Current trends in athletic and physical education concerning the care and prevention of injuries with special emphasis on therapeutic and rehabilitation techniques. Taping and bandaging will be practiced in a laboratory situation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5307. Bioenergetics of Exercise and Rehabilitation.**

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in physiological basis of muscular, respiratory, cardiovascular, and nervous systems in the rehabilitation of all athletic injuries. Must be admitted to the MS in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5308. Therapeutic Exercise and Rehabilitation.**

This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in the rehabilitation setting, as well as to impart knowledge pertaining to the physiological effects, indications, contraindications and applications of therapeutic exercise in the rehabilitation of all athletic injuries. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5310. Proprioception and Neuromuscular Control in Rehabilitation.**

This course provides for an advanced study of the concepts, theories, and current research related to proprioception, postural stability, and neuromuscular control as applied to the prevention, diagnosis, and clinical management of sport-related musculoskeletal injuries and concussions. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5311. Biomechanics of Musculoskeletal Injury.**

This course focuses on the application of biomechanical principles to the pathoetiology, diagnosis, and physiological capacity for healing of injuries to bone, ligament, tendon, cartilage, and other human tissues, with an emphasis on current injury research. Must be admitted to the M.S. in Athletic Training Program or instructor approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5312. Evidence-Based Practice in Sports Medicine.**

This course is designed to provide students with advanced study in the elements of evidence-based practice in sports medicine with focus on the role of accessing, retrieving, and critically appraising evidence to answer clinical questions in patient care. Must be admitted to the M.S. in Athletic Training Program or instructor approval required. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5318. Therapeutic Evaluation and Intervention.**

This course explores the scientific bases of therapeutic musculoskeletal exercise and neuromuscular evaluative techniques in the rehabilitation process. Must be admitted to the M.S. in Athletic Training Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5347. Independent Study in Athletic Training.**

This course may be taken by a student who desires to work on a research problem or investigation in Athletic Training. The student gathers and analyzes pertinent data and submits a report of the results of the research. Repeatable once for credit. Prerequisite: ESS 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**AT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in AT 5399B.

Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**AT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Biology (BIO)

**BIO 1130. Functional Biology Laboratory.**

Fundamental techniques and instruments used in cellular biological research will be taught while emphasizing safety, measurements, and scientific methods. Students will design and implement controlled experiments, identify independent and dependent variables, analyze data, draw conclusions, and communicate results with appropriate tables and graphs in oral presentations and written papers

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1106

**BIO 1131. Organismal Biology Laboratory.**

This course introduces the students to the basics of experimental design, scientific method and inquiry, use of statistical analyses and writing research papers. Topics covered include Mendelian and population genetics, natural selection, population ecology, phylogeny, and behavioral ecology

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1107

**BIO 1320. Modern Biology I, Molecules, Cells, and Physiology.**

Provides students with basic scientific and biological principles. Current problems in biology and the ethics of science are presented with perspectives of public policy from a scientific viewpoint. This course is not recommended for majors in the natural sciences, including biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1308

**BIO 1330. Functional Biology.**

This course provides the students with a strong foundation in cellular and molecular biology. Topics include biochemistry, energy metabolism, molecular bases of gene regulation and protein functions, cell division and control, and cell signaling. This course is required for all biology majors and is not recommended for non-science majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1306

**BIO 1331. Organismal Biology.**

This course provides science majors with a foundation in organismal biology, Mendelian and population genetics, evolution and ecology. Topic include: patterns of inheritance, genetics, evolution, speciation, phylogenetics, and behavioral population, community, and ecosystem ecology. This course is required for all biology majors and is not recommended for non-science majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1307

**BIO 1421. Modern Biology II, Organisms, Evolution, and Environment.**

This course provides the nonscience major the strong and diverse background necessary to understand the structural and functional diversity of organisms, evolution and behavior, and interactions among organisms and their environment. Topics include issues such as the genetic basis of behavior, overpopulation and extinction, ozone depletion, and conservation biology. This course is not recommended for majors in the natural sciences, including biology

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1409

**BIO 2400. Microbiology.**

Principles of microbiology, morphology, anatomy, physiology and taxonomy of representative groups of non-pathogenic organisms. Laboratory methods stress studies of pure cultures, the use of laboratory apparatus in quantitative determinations and the detection and identification of microbial populations in the environment. Prerequisites: BIO 1330 and BIO 1130, and BIO 1331 and BIO 1131; and CHEM 1341 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2421

**BIO 2410. Intermediate General Botany.**

An introduction to the biology of plants and plant-like organisms, emphasizing their role in ecosystem processes, relationships between structure and function, and the evolutionary relationships among the major plant groups. Prerequisites: BIO 1330 and BIO 1130, and BIO 1331 and BIO 1131 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 2411. Intermediate Zoology.**

Provides biology majors a strong foundation in animal biology at the organismal level. The format will include details of animal form and function as well as concepts relating to classification, phylogeny, evolution, and ecology. Topics will include natural history, biogeography, adaptations to local environments, shared characters, and behavior. All material is presented in an accepted phylogenetic sequence.

Prerequisites: BIO 1330/BIO 1130, and BIO 1331/BIO 1131 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 2430. Human Physiology and Anatomy.**

A course on human physiology covering the various organ systems. Principles of molecular biology, cell and tissue structure, anatomy and relationship of structure and function are stressed. May not be credited toward a Biology major or minor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2404

**BIO 2440. Principles of Microbiology.**

The Basic Principles of microbiology, morphology, physiology, immunology and the relationship of microorganisms to diseases. This course is designed primarily to meet the requirements for students in allied health sciences and other programs requiring only one semester of microbiology. This course may not be credited toward a biology major or minor. Prerequisites: BIO 1330 and CHEM 1341 with minimum grades of D

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2420

**BIO 2450. Genetics.**

An introduction to basic principles of Genetics by studies of Mendelian, molecular, quantitative and population genetics. Topics include: classical transmission genetics, and gene mapping, DNA replication and repair, transcription, translation, control of gene expression, genetic engineering techniques, Hardy-Weinberg equilibrium, evolutionary change via natural selection, and genetic drift. Prerequisites: BIO 1330, BIO 1130, BIO 1331 and BIO 1131; CHEM 1141, CHEM 1341, CHEM 1142, and CHEM 1342 all with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2416

**BIO 2451. Human Anatomy and Physiology I.**

Part I of a two semester course on the structure and function of the human body. Designed specifically to prepare students for nursing and other health professions. Prerequisites: BIO 1330 and CHEM 1341 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2401

**BIO 2452. Human Anatomy and Physiology II.**

This course is the second part of a two semester course on the structure and function of the human body designed specifically to prepare students for nursing and other health professions. Prerequisites:

BIO 1330, CHEM 1341, BIO 2451, with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** BIOL 2402

**BIO 3300. Cell and Molecular Biology.**

Fundamentals of structure and function of prokaryotic and eukaryotic cells. Course includes cell and organelle structure, basic biochemistry, principles of thermodynamics and energy transformation, nucleic acid and protein synthesis, enzyme kinetics, cell motility and cell signaling.

Prerequisites: BIO 1330, BIO 1130, BIO 2450, and CHEM 1342 with grades of "C" or higher, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 3308. Global Ecology.**

An interdisciplinary introduction to the science of global environmental change. Emphasis will be placed on understanding principles of earth system science, the scientific basis underlying the major components of global environmental change, the linkages between these components, and the central role of humanity in contributing to the observed changes. Prerequisites: BIO 1330, BIO 1130, BIO 1331 and BIO 1131 with grades of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3351. Forensic and Human Genetics.**

This course introduces students to basic principles of Mendelian, molecular, and forensic genetics as it relates to the problems of human populations. This course is intended for non-science majors. May not be credited towards a biology major or minor. Prerequisites: BIO 1320 and BIO 1421, or BIO 1330/BIO 1130 and BIO 1331/BIO 1131

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 3406. Economic Botany.**

An introduction to the utilization of plants by humans and their economic and ecological significance. Laboratories will stress plant features beneficial to economic and societal needs. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3410. Phycology.**

A study of algal organisms, comparative and culture techniques.

Prerequisites: 8 hours from BIO 1410, BIO 2410, BIO 2450, BIO 3400, or BIO 3450 with grades of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3421. Vertebrate Physiology.**

The study of the physiology of vertebrate organ systems, including the nervous system, musculoskeletal system, endocrine system, cardiovascular system, respiratory system, digestive system, reproductive system and urinary system. Mammalian systems will be emphasized. Prerequisites: BIO 2450 with a grade of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3430. Mycology.**

A study of the fungal kingdom including slime molds and lichens.

Laboratory studies will emphasize taxonomy, morphology and culture techniques. Prerequisites: BIO 2410 or BIO 2400, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3442. Virology.**

The structure, multiplication and genetics of bacterial, plant, and animal viruses. The role of viruses in human and plant disease. Prerequisites: BIO 2400, BIO 2450 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3460. Aquatic Biology.**

An introduction to plant and animal life in the fresh water habitats of the local area. Prerequisites: BIO 2411, BIO 2450 with grades of "C" or higher; and one year of Chemistry. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 3461. Plant Taxonomy.**

Principles of identification and classification of plants; nomenclature and characteristics of various plant groups with emphasis on the higher plants. Prerequisites: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3465. Plant Physiology.**

Basic principles of plant physiology studied in lecture and laboratory.

Prerequisite: BIO 2450 with a grade of "C" or higher or consent of instructor. One semester of organic chemistry is strongly recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3470. Invertebrate Zoology.**

A study of the comparative morphology, evolution, systematics and natural history of invertebrates. Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 3480. Histology.**

A study of the structural and functional relationships between cells and tissues in organs. The laboratory includes the study of prepared slides and of microtechnique. This course is designed to meet the needs of pre-professional students. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 3490. Principles of Developmental Biology.**

This course will cover basic principles of developmental biology in both plant and animal systems. Course will mainly address cell, molecular and genetic mechanisms underlying the development of model organisms. Prerequisites: BIO 1430 and BIO 2450

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4126. Immunology Laboratory.**

This laboratory-based course will cover cells of the immune system and basic serological reactions, including bacterial and viral agglutination reactions, precipitation, immunoelectrophoresis, immunofluorescence, and enzyme-linked immunosorbent assays. Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher. Pre- or co-requisite: BIO 4326

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4166. Medical Microbiology Laboratory.**

This laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450, with grades of C or higher. Corequisite: BIO 4345. (WI)

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4299. Undergraduate Research.**

Supervised individual research projects in a mentor-student relationship with a biology professor. Available only to biology majors with junior standing and at least a "B" average. May be repeated once for credit. Prerequisites: BIO 2450 with a grade of "C" or higher and consent of the supervising professor

**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**BIO 4300. Neurobiology.**

This course will give students an overview of neuroscience, particularly the areas of neuroanatomy, neurophysiology, and evolutionary and developmental neurobiology. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, speciation and man's future. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems and certain other selected topics. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4304. Wildlife and Recreation: Impact, Policy, and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisite: BIO 4416

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4305. Nature Study.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed. Prerequisite: BIO 2450 Genetics with a grade of C or higher; or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4319. Biological Resources: Conservation and Planning.**

This course is an introduction to the protection and sustainable use of populations, species, habitats, and ecosystems. Course also includes study of the methods used to analyze biodiversity and population regulation. Prerequisite: BIO 4416 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4326. Immunology.**

This lecture-based course will cover the biology of the immune system and its relationship to disease, emphasizing B and T cell immunity, immune diseases, hypersensitivities, transplantation, and cancer.

Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4350B. Biological Implications of Water Planning in Texas.**

Current topics in understanding the biological implications of water planning in Texas. This course will be of particular interest to students who have a background in aquatic biology and who intend to stay in Texas post-graduation. Prerequisites will be determined by topic and faculty offering the course. May be repeated once with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**BIO 4350D. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350E. Techniques in Aquatic Biology.**

This course will provide hands on experience with a suite of physical, chemical, and biological sampling techniques and gear used in applied river studies. Students will be exposed to the fundamentals of data quality objectives, accuracy, precision, detection limits, data visualization, exploratory analysis, univariate and multivariate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350I. Bird Conservation and Management.**

This course is an introduction to the conservation and management of bird populations in an ecological context. Course covers a variety of species and spatial scales from landscape to ecoregion. Laboratory portion will involve field trips, intensive computer-based labs, and class discussion. Prerequisites: BIO 4416 or concurrent enrollment

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Prerequisites: BIO 1330, BIO 1331, and BIO 2450 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350K. Genomics.**

The course is a lecture covering modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology. Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350L. Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law have developed in North America, particularly in the United States. Federal treaties, statutes, case law, and regulations pertaining to wildlife will be presented. Wildlife law from representative states will be referenced as well. Prerequisite: BIO 4423 or 4435 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350N. Aquatic Toxicology.**

This course examines the basic concepts of aquatic toxicology, including uptake mechanisms, interactions and elimination of different toxicants. Students will understand how toxic substances impact freshwater and marine environments and identify potential health impacts to humans. Topics to be discussed include nutrients, metals, petroleum, radionuclides, plastics and emerging contaminants. Restricted to Junior standing. Prerequisite: A minimum 2.5 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350O. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Restricted to Juniors and Seniors with a minimum 2.50 Overall GPA. Co-requisite: BIO 4350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 4350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 4350O, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Restricted to juniors and seniors with a minimum 2.5 Overall GPA. Co-requisite: BIO 4350O

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 4350O

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change. Must be at least a Junior to enroll with a minimum 2.5 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. It is designed on topics of applied microbiology recommended by American Society of Microbiology. Prerequisites: BIO 2400 and BIO 2450 (or equivalent), with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350S. Marine Resources.**

This course examines the economic importance of marine resources and the exploitation and fragility of the marine environment. Topics to be examined include ocean ownership, overfishing, aquaculture, shark finning, whaling, ocean mining, marine transportation, tourism, pollution, harvesting energy from the ocean and the importance of creating marine reserves

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability, is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4350V. Fish Physiology.**

This course examines the primary physiological functions in fish, including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges. Prerequisite: BIO 2450 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 4366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, epidemiology and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with grades of C or higher. Students may take only one of BIO 4345, BIO 4350G or BIO 4445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4369. Biosystematics.**

Biological systematics is a multidisciplinary component of most biological disciplines. Course topics include: classification schemes, homology, homoplasy, the application of nomenclature, and phylogeny reconstruction. The course will also present relevant issues in conservation, biodiversity cataloguing, museum and collection management, and identification methods/dichotomous keys.

Prerequisite: BIO 2450 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 4402. Earth Science I.**

The description and interpretation of earth phenomena considered from the standpoint of meteorology and astrospace. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. May not be counted toward a major or minor in biology. Required for those seeking grade 4-8 Science and Mathematics/Science certification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. May not be counted toward a major or a minor in biology. Required for those seeking grade 4-8 Science and Mathematics/Science certification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, vegetational regions and surface geology of central Texas. Emphasis is placed on plant-soil-water relationships to develop conservation concepts. Students will make a representative collection of plants. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4411. Morphology of the Vascular Plants.**

The structure, life-cycles and evolution of fossil and living vascular plants. Emphasis on such topics as the origin of land plants, evolution of the ovule, angiospermy, the flower and fruit. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of Chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4412. Plant Anatomy.**

The anatomy of vascular plants stressing descriptive, development and comparative aspects of seed plants and the anatomical adaptations of plants to environmental factors. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of Chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history and evolution of fishes. Field trips will be made to collect specimens and laboratory periods will be devoted to morphological and systematic analysis. Prerequisites: BIO 2411, 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4416. General Ecology.**

The ecological relationships that exist between organisms and those relationships that exist between organism and environment. Laboratory sessions will be devoted to literature review and/or specific ecological problems. This course or BIO 4454 is required of all biology majors. Prerequisites: BIO 2450; BIO 2410, BIO 2411, or BIO 2400 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is upon taxonomy, speciation and biotic provinces. The laboratory will include field trips for the study and collection of animals in their natural habitats. Students will assemble a representative collection of animals.

Prerequisites: BIO 2411, BIO 2450 with a grade of "C" or higher and permission of instructor required for non-wildlife majors. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4421. Ornithology.**

Introduction to anatomy, behavior, ecology and identification of birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4422. Mammalogy.**

The taxonomy, distribution, ecology, behavior and evolution of mammals with particular emphasis on wild animals of the southwest. Laboratory will emphasize anatomy, identification, preparation of specimens and field exercises in the methods of population analysis. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher. BIO 4416 is also recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4423. Wildlife Management.**

Applications of the principles of ecology and natural history to the management of wildlife habitats and control of wildlife populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation and field trips to observe wildlife management projects. Prerequisites: BIO 2410, BIO 2411, and BIO 2450 with a grade of "C" or higher. BIO 4416, BIO 4421, or BIO 4422 is also recommended. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4425. Biometry.**

Basic principles of statistical methods as applied to biological problems such as sampling techniques, analysis of data, experimental design and population dynamics. Emphasis will be on practical application.

Prerequisites: BIO 2450 with a grade of "C" or higher; MATH 1315

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher and permission of instructor required for non-wildlife majors

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology. Prerequisites: BIO 2450 and CHEM 2330 or CHEM 2341 or CHEM 2342. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry; UV-spectrophotometry; fluorescence; flame and atomic absorption spectrophotometry; paper, gas, gel filtration and ion exchange chromatography; radioactive counting; and electrophoresis. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4446. Microbial Ecology.**

This course will illustrate the wide variety of bacteria in nature, their interactions with other organisms and the environments, and their roles in global cycling of elements such as carbon, nitrogen, and sulfur. The laboratories will feature enrichments for selected groups of microorganisms (sulfate reducers, nitrogen fixers) and analysis of these isolates by microscopy, gas chromatography and radiochemical substrate utilizations. Prerequisites: BIO 2400 and BIO 2450 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4447. Microbial Physiology and Genetics.**

This course will cover fundamental concepts in bacterial physiology and genetics, including central and specialized metabolism, and unique aspects of bacterial genetics. Prerequisites: BIO 2400 and BIO 2450; CHEM 2142 and CHEM 2342 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4450. Physiological Ecology of Animals.**

This course will cover fundamental concepts in bacterial physiology and genetics, including central and specialized metabolism, and unique aspects of bacterial genetics. Prerequisites: BIO 2400, BIO 2450; CHEM 2142, CHEM 2342 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4454. Plant Ecology.**

Physiological ecology and community structure and function in the organization of terrestrial plant ecosystems. Quantitative vegetational sampling and the use of field and laboratory physiological equipment are included in the laboratory. This course or BIO 4416 is required of all Biology majors. Prerequisite: BIO 2450 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4464. Vertebrate Anatomy.**

This course is a comparative study of vertebrate anatomy. Fossil histories are evaluated to understand how vertebrate radiation occurred in the geological past, along with changes in structure of organs and organ systems. Lab includes dissection of representative members of each major vertebrate group. Prerequisite: BIO 2450. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4465. General Entomology.**

Principles of morphology, physiology and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisites: BIO 2411 and BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 4470. Limnology.**

The physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnological sampling methods, chemical, and biological analysis of samples and hydrographic surveying are included in the laboratory. Prerequisites: BIO 2450 with a grade of "C" or higher; one year of chemistry. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: BIO 2450; and BIO 2400, BIO 2410, or BIO 2411 with a grade of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**BIO 4480. Cytology and Microtechnique.**

A study of cellular structure and microscopic technique. The lecture portion of the course presents cytology of all cell types and theoretical aspects of microscopy including light and electron-based technologies. The laboratory portion of the course provides training in standard light and electron microscopy, laser scanning confocal microscopy, and digital microscopy. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 4481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper, reporting the internship experience conducted at the biological unit under the supervision of a faculty member, will be required. This course may be credited toward a biology major with prior approval of the biology department adviser and chair. Prerequisite: BIO 2450 with a grade of "C" or higher

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**BIO 5110. Seminar in Biology.**

Interactive discussion of timely issues and problems, designed to expose students to the current literature in their fields of interest and its critical analysis. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**BIO 5114. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5214 and BIO 5314

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 5166. Medical Microbiology Laboratory.**

This graduate laboratory-based course will cover pathogenic bacteria emphasizing identification of selected groups of pathogens and the biological basis for virulence. Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5214. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation. See also BIO 5314

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5295. Fundamentals of Research.**

Designed to acquaint the beginning graduate student with materials and methods of research in the biological sciences. It is recommended that a graduate student take this course the first semester in residence

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5300. Neurobiology.**

This course presents the biology of the nervous system with emphasis on the human nervous system. Topics presented in lecture include neuroanatomy, cellular neurobiology, neurophysiology, developmental neurobiology, and neuronal plasticity. Prerequisites: PHYS 1420 and PHYS 1430 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5301. Evolution.**

Basic genetic principles applied to natural selection, adaptation, populations, and speciation. Consideration is given to the origin of life, nature of chromosomal variation, evolution of genetic systems, and certain other selected topics. Prerequisite: Undergraduate genetics course or its equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5304. Wildlife and Recreation: Impact and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisites: BIO 1330/BIO 1130 and BIO 1331/BIO 1131 or BIO 1320 and BIO 1421

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**BIO 5305. Methods of Nature Study for Teachers.**

This course provides a comprehensive survey of natural events. It includes laboratory and field work emphasizing observation, collection and discovery of relationships. It is creditable only for those seeking elementary or middle school certification and is required for those seeking grade 4-8 Science or Science/Mathematics teaching certification. This course must be taken the semester immediately prior to student teaching

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5311. Cancer Biology.**

Cancer Biology provides a foundation for understanding the complex molecular, biochemical, and cellular processes associated with cancer development. Topics include the role of tumor suppressor genes, oncogenes, DNA repair, apoptosis, ECM, cell-cycle control, cell signaling pathways, immune function and cancer-causing viruses. Emerging diagnostics and/or therapeutics will also be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5314. Collaborative Research.**

This course allows master's level graduate students to initiate, conduct, and participate in research in collaboration with graduate faculty of the Department of Biology that is in addition to thesis research conducted under BIO 5399A or BIO 5399B. This course recognizes the collaborative nature of scientific investigation

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5319C. Ecotoxicology.**

Topics to be covered include sources, types, and fates of toxicants, organism response to toxicants, toxicant effects at the population, community, and ecosystem levels, and monitoring and risk assessment. Examination of current literature will form the core of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5319F. Watershed Management Frameworks and Applications.**

Introduction to integrated watershed assessment and management tools for identifying programmatic water quality and quantity issues and their root causes and solutions, and their practical application. The scientific and socio-economic elements are considered within the context of planning and developing watershed protection plans and programs.

Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5335. Fisheries Management.**

An introduction to principles and techniques in fisheries management. Includes the study of artificial reproduction, carrying capacity, productivity, sampling procedures, population estimates, mortality, survival growth rates, and commercial and sport fisheries. (Spring, even years). Prerequisite: Ichthyology course or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5350G. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their ability to cause disease, emphasizing the biological basis for virulence, and research strategies for investigating infectious diseases. Prerequisite: BIO 2400 or equivalent. Students may take only one of BIO 5350G or BIO 5445 for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350I. Emerging Infectious Diseases.**

Current topics in the emergence of viral and bacterial diseases in humans. This course will include new diseases, diseases previously seen and increasing in incidence, and diseases not previously seen in this country. This course will be of interest to students who are pursuing advanced degrees and courses in microbiology, biochemistry, and cell and molecular biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350J. Environmental Physiology of Animals.**

This course is a study of how animals respond physiologically to changes in environmental temperature, moisture, salinity, partial pressure of gases, and toxins. Permission of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350K. Genomics.**

The course is a lecture course in modern genomics, including principles of genome function, the human genome, comparative genomics, genome sequencing, evolution and genomic change, databases and medicine, ethical, legal and social issues. The course also includes discussion of transcriptomics, proteomics, metabolomics, directed evolution, protein design, and systems biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350L. Graduate Bacterial Genetics.**

This course will cover concepts and mechanisms involved in the genetics of Archaea and Bacteria. Graduate students will learn current strategies dealing with traditional molecular genetics including epigenetics and post-transcriptional regulation involving small non-coding RNA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350M. Wildlife Policy and Law in North America.**

This course provides the student with a historical and cultural context within which wildlife policy and law (federal treaties, statutes, case law, and regulations) have developed in North America, particularly in the United States. Graduate students will research the development of Wildlife law in representative states as well

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350O. Tropical Ecology and Conservation.**

Students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350P

BIO 5350P

**3 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350P

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350P. Tropical Ecology and Conservation Lab.**

This laboratory course complements the lecture course BIO 5350O, in which students will obtain a first-hand knowledge of the ecology, biodiversity, conservation, and culture of tropical ecosystems. It is an immersive and intensive study abroad course combining traditional lecture and field-based laboratory instruction. All course work will be conducted during a ~1 month stay in the South American country of Ecuador. Co-requisite: BIO 5350O

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Co-requisite(s):** BIO 5350O

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350Q. Biological Oceanography.**

Students will be introduced to the principles of oceanography and will understand anthropogenic impacts on the oceans. Topics to be investigated will include: ocean formation and destruction, sediments, ocean circulation, waves, tides, estuaries, life in the oceans, hydrothermal vents, coral reefs, fisheries, marine pollution, and climate change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350R. Microbial Biotechnology.**

This course provides an overview of how microbes (e.g., bacteria, viruses and yeast) are manipulated to solve practical problems through biotechnology. This course is designed on topics of applied microbiology recommended by American society of Microbiology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5350T. Field Biology of Ireland.**

In this course, students will use multiple techniques to explore biodiversity across multiple ecosystems in Ireland. Must be accepted into the Texas State in Ireland Study Abroad Program

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 5350U. Ecology of Rarity.**

This course will examine the ecology of rarity and its ability to inform public awareness and environmental policy. This course will explore how we define rarity, persistence and viability. Is rarity more or less common than might be expected, and is there anything we can or should do about it?

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5362. Environmental Impact Analysis.**

Current government regulations regarding environmental impact, content of environmental impact statements, how to proceed with an impact study, application of ecological principles to impact studies, and steps in the review process for environmental impact statements are considered. (Spring, odd years). Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5366. Medical Microbiology.**

This lecture-based course will cover pathogenic bacteria and their relationship to disease, emphasizing critical evaluation of research literature, disease transmission and the biological basis for virulence.

Prerequisites: BIO 2400 and BIO 2450 with minimum grades of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5390. Problems in the Biological Sciences.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in BIO 5399B. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are used. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5402. Earth Science I.**

A study of astronomy and meteorology through observation, description, and interpretation of earth phenomena. Includes field observations, methods of measurement and interpretation of data related to the physical environment and space technology. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5403. Earth Science II.**

The description and interpretation of earth phenomena considered from the standpoint of geology and oceanography. Includes field observations, methods of sampling and interpretation of data related to the physical environment. Requires independent scientific and science education research and presentation of findings in a professional context

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5408. Science Processes and Research.**

Students will analyze scientific research design, design research, interpret data, and communicate results. Stress will be placed on broad-field structure and integration of major science concepts and research-based science pedagogy. This course must be taken the semester prior to student teaching and is required for those seeking 7-12 Life Science or Science teacher certification. This course may not count as one of the four upper-level Biology courses required of general Biology majors, or one of the three upper-level Biology courses required of Biology minors

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5410. Field Biology of Plants.**

Ecological relationships and natural history of plants, including historical geology, geography, soils, and vegetational regions of Central Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5411. Morphology of the Vascular Plants.**

A phylogenetic survey of living and fossil vascular plants that focuses on external morphology and reproductive biology. Topics include phylogenetic reconstruction, the origin of vascular plants, seed reproduction, and the origin of angiosperms. Emphasis is on broad-scale evolutionary patterns and origin of major taxonomic groups. Prerequisites: Biology undergraduate botany course and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5412. Plant Anatomy.**

A descriptive and functional analysis of seed plants that focuses on internal structure. Topics include recognition and characterization of plant tissues, the structure of plant organs, and organ development. Emphasis is on pattern of tissue organization common to all seed plants and the functional basis for anatomical structure. Prerequisites: Biology undergraduate botany course, and General Chemistry I and II, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5413. Parasitology.**

The biology and biological significance of the common parasites of man and animals. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5418. Field Ornithology.**

This course is designed to introduce and provide an advanced knowledge of the application of various field, laboratory, and statistical methods and techniques in the study of avian species. The course will include topics related to survey methodology, sampling design, marking/banding, measurement/sample extraction, and aging/sexing of avian species

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5419. Stream Ecology.**

Class covers ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Lab includes sampling methods, description and comparative studies, experiments, critical discussion of literature and experience in writing manuscripts. Prerequisite: Consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5420. Natural History of the Vertebrates.**

Environmental relationships and natural history of vertebrates. Emphasis is on evolution taxonomy, speciation, behavior, and morphology. Laboratory will include field trips for the study and collection of vertebrates in their natural habitats. Students will assemble a representative collection of vertebrates

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5421. Ornithology.**

Introduction to anatomy, behavior, ecology, and identification of the birds of Texas. Laboratory will emphasize field studies of birds and their habitat requirements

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5422. Mammalogy.**

The taxonomy, distribution, ecology, behavior, and evolution of mammals with particular emphasis on wild mammals of the Southwest. Laboratory will emphasize anatomy, identification, preparation of specimens, and field exercises in methods of population analysis. Students may assemble representative mammal collection

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5423. Wildlife Management.**

Application of ecological principles and natural history concepts to the management of wildlife habitats and populations. Laboratory will involve demonstrations and practice exercises with wildlife management techniques and instrumentation, and field trips to observe wildlife management projects

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5424C. Fish Physiology.**

This course examines the primary physiological functions in fish including how fish sense and interact with the environment, maintain their energetic metabolism (respiration, digestion and excretion), reproduce and maintain water balance. Students will learn about the diverse adaptations fish use to cope with environmental and physiological challenges

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 5426. Immunology.**

A study of the immune response, antigen/antibody reactions, major histocompatibility complex, and immunopathology. Prerequisite: Biology undergraduate cellular biology course or BIO 3442 and organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. Emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5435. Techniques in Wildlife Management.**

The basic methodology of practical wildlife management. This involves techniques in monitoring and data collection related to population dynamics and habitat parameters of wildlife species as well as field research

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5441. Cellular Physiology.**

Advanced cellular biology, including membrane physiology, thermodynamics, energy transduction and distribution, and cellular movement in non-muscle and muscle cells. Laboratory includes discussion of current research and exercises in cellular physiology.

Prerequisites: Cell biology, organic chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5442. Experimental Techniques.**

Use of methods and instruments applicable to biological investigations, including colorimetry, UV-spectrophotometry, fluorescence, flame and atomic absorption spectrophotometry, paper, gas, gel filtration and ion exchange chromatography, radioactive counting, and electrophoresis

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5450. Physiological Ecology of Animals.**

Course brings together the principle concepts of environmental physiology of animals. The biological problems associated with living in various ecological realms will be discussed, and the biochemical and physiological adaptations of animals to their diverse habitats will be studied. Prerequisites: Organic chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5454. Plant Ecology.**

Functional ecology of terrestrial plants, plant populations, and communities. Laboratory emphasizes quantitative and experimental approaches to plant ecology and the use of field and laboratory physiology equipment. Prerequisites: Undergraduate ecology course, undergraduate plant physiology course, and an undergraduate cellular biology course, or consent of the instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5465. General Entomology.**

Principles of morphology, physiology, and taxonomy of insects. Laboratory time will be devoted to a taxonomic study of the common orders and families of insects. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5466. Phylogenetic Methods.**

Reconstructing phylogenies is important in most fields of biology. Course emphasis is on practical data collection, management, and analysis.

Laboratory exercises will introduce phylogenetic and DNA analysis software, and WWW resources. Students will learn how to address questions in their own research using phylogenetic methodologies.

Prerequisite: Genetics course or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and make up reservoir ecosystems. Prerequisites: Limnology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5472. Animal Behavior.**

This course presents all the major facets of the study of animal behavior, giving special attention to its evolution and ecological significance. We will discuss major conceptual models guiding past and present research in the field. Laboratories will emphasize experimental techniques and statistical analysis. Prerequisites: One course in statistics, or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5480. Cytology and Micro-technique.**

Study of cellular ultra-structure and electron micro technique. Lecture portion of course will cover cytology of all cell types and theoretical aspects of light microscopy and electron microscopy. Laboratory portion will train students to proficiency in microscopy

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5481. Internship in Biological Laboratory Technologies.**

The student will participate in the work of a selected biology unit (private, commercial, or governmental). A research paper reporting the internship experience conducted at the biological unit under the supervision of a faculty member will be required. This course may be credited toward a biology major with prior approval of the graduate advisor and department chair. Graded on a credit (CR), no credit (F) basis

**4 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 5485. Scanning Electron Microscopy.**

A course on theory of operation and practical use of the scanning electron microscope as applied to biological materials. The course includes aspects of specimen preparation, photomicroscopy, micrograph interpretation, and microscope maintenance procedures. The course will provide the student training necessary to independently do scanning electron microscopy

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.A. or M.S. with a thesis are expected to enroll in thesis each semester in which faculty supervision is received or laboratory facilities are utilized. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7100. Professional Development.**

This course is seminar-based and covers topics related to teaching, research, and employment responsibilities. Completion of the course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**BIO 7102. Seminar in Aquatic Resources.**

Interactive discussion of timely issues and problems, designed to introduce students to the range of scientific, socioeconomic and policy issues likely to be encountered within the field of aquatic resources. All students seeking a doctoral degree in Aquatic Resources must enroll in BIO 7102 at least twice

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**BIO 7103A. Ecology and Society.**

Interactive discussion on relationships between society and the life-supporting ecosystems on which humans depend. Topics include roles of natural systems in social systems; effects of social, economic and political institutions on ecological systems and services; and the means by which humans develop and sustain desired ecological and social states

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103B. Aquaculture.**

The course comprises a survey of aquaculture production throughout the world. It also examines and discusses the impacts of aquaculture on nutrition, fisheries and the economy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103C. Marine Pollution.**

This course will be an interactive discussion of scientific literature on the bioaccumulation and trophic transfer of pollutants in the marine environment. Topics will include metals, oil, PCBs and emerging contaminants

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7103D. Molecular Biology of the Cell.**

Interactive discussion of current literature on molecular biology of the cell. The course is designed to discuss concepts and their applications and methodology associated with the structure and function of the cell at cellular and molecular level

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103E. Contemporary Problems in Ecology.**

This course is an interactive discussion of the theoretical foundations and empirical basis for controversial topics in ecology, designed to develop critical thinking skills, and the ability to evaluate and integrate the biological, chemical and physical factors that affect the structure, functions, and interactions characterizing communities and ecosystems

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103F. Molecular Genetics of Plant Development.**

The study of plant development is rapidly changing as plant genome projects discover a multitude of new genes, and their expression and interaction patterns are understood. This course is designed to discuss concepts in plant development, and developmental processes as pathways of gene regulatory activities

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103G. Ecohydrology.**

A review of the concept of ecohydrology, its scientific foundation, and its ecological-hydrological linkages. Current topics in ecohydrology in the literature will be discussed, including manipulation of biota and hydrology interactions in a landscape, and the possibility of augmenting the resilience of ecosystems to anthropogenic changes

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103H. Integrated Waterbird Management.**

This course focuses on the ecology and management of waterbirds, with an emphasis on the inland and coastal waterbirds of Texas. The basic ecology of waterbirds, waterbird management techniques, and waterbird habitat management will be discussed

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7103I. Avian Ecology and Evolution.**

This course is an interactive discussion of avian ecology and evolution, providing students with a critical examination of theories, hypotheses, and lab and field-based data that support or refute their hypotheses. This course also discusses peer-reviewed literature that challenges some paradigms in avian ecology and evolution

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7114. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 7120. Population Biology Seminar.**

This course facilitates exploration of current topics in population and conservation biology through reading and discussion of contemporary primary and secondary literature

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7199A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7214. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7299A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**BIO 7302. Problems in Aquatic Resources.**

Individual study on specific state, national, or international aquatic resources issues, under direct supervision of a doctoral or associate faculty member. Students may not enroll in BIO 7302 more than twice for doctoral credit without the approval of the Graduate Program Director  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7303. Research.**

Research course for students who have not yet passed their Candidacy Exam, typically under direction of research-dissertation supervisor. Pre-candidacy students must enroll in course every semester until admission to Candidacy, although it may not be taken more than three times for doctoral credit without the approval of Graduate Program Director  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7308. History of Vegetation and Climate.**

An overview of past vegetation and its relationship to changing climate. Topics include principles of paleovegetation analysis, paleoclimatology, the rise of flowering plants, vegetation during the age of dinosaurs, the rise of the grasslands, and the Quaternary Ice Age. Prerequisites: Consent of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**BIO 7310. Global Aquatic Resources.**

Introduction to global, national, and regional aquatic resource issues, including scientific, environmental policy and socioeconomic components and perspectives. Water quantity and quality issues and their root causes in different regions of the world are examined, with an emphasis on case studies  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7312. Government Policy and Aquatic Resources.**

Examination of aquatic resources issues in federal, state, or local governments, including examination of goals and relations of different governmental entities to each other. Relevant international treaties, and federal and state statutes in which these policies are embodied, are examined  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7314. Collaborative Research.**

This course (concurrent enrollment allowed) allows Ph.D. level graduate students to initiate, conduct, and participate in collaborative research with graduate faculty of the Department of Biology that is in addition to research conducted under BIO 7303, BIO 7399A, or BIO 7699A. This course recognizes the collaborative nature of scientific investigation  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7322. Scientific Method and Aquatic Resources.**

Analysis of the scientific method applied to ecological research, focusing on aquatic ecosystems. Topics include methods of reasoning and statistical inferences in research, strategies of scientific research in aquatic ecology, and scientific research as a social process  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7324. Natural History and Conservation of Large Mammals.**

This course will introduce students to advanced details of natural history, research, and conservation of large mammals. Topics considered will include natural history, range and population status (historic and current), importance to and interaction with humans, research design and analysis, and the development of conservation and management plans  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7325. Wildlife and Recreation: Impact, Policy, and Management.**

Students will be introduced to the impact human recreational activities have on wildlife habitats and populations. Management practices to enhance human-wildlife encounters or to minimize detrimental effects on wildlife populations will be presented. Prerequisite: BIO 4416  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7326. Immunobiology.**

This lecture-based course will cover the mechanisms and biology of the innate and adaptive immune system. Emphasis will include relationship to cancer, transplantation, hypersensitivity (allergy), and disease. Students will evaluate current research in immunology  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7328. Integrated Waterbird Management.**

This course examines the principles and practical methodology of integrated waterbird conservation and management, including overview of waterbird ecology, techniques in monitoring and data collection related to population dynamics, and habitat parameters of waterbird species. Field trips may be required  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**BIO 7336. Evolutionary Ecology.**

This course will use an evolutionary perspective to explore questions provided by natural selection and sexual selection through assessment of current theory and research related to topics such as competition, coevolution, and phenotypic plasticity. Students will achieve comprehension and familiarity with the field through discussions and writing  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7342. Virology.**

This course examines the structure, multiplication and genetics of bacterial, plant, and animal viruses as well as the role of viruses in human and plant disease. Students are expected to become familiar with the research literature in virology  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**BIO 7346. Conservation Biology.**

Examination of the alteration of habitats and associated biological changes threatening the continued existence of species and basic ecosystems. Topics include conservation ethics, working paradigms, levels and loss of global biodiversity, conservation at population and ecosystem levels, restoration ecology, endangered species biology and conservation laws. Recent Advances are stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7348. Aquatic Resources Economics.**

Examination of economic and related social issues for facilitation of sustainable aquatic resources for competing beneficial human uses and ecosystem maintenance, including valuation of aquatic ecosystem services. Prerequisite: BIO 7312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7350. Aquatic Resources Law.**

Examination of treaties, state and federal laws, and regional and local regulations, affecting freshwater and coastal aquatic resources. The focus is on aquatic ecosystems, water quantity and quality and environmental conditions, including the availability, storage, use, and protection of aquatic resources. Prerequisite: BIO 7312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7353. Biogeography.**

Examines historical and ecological explanations of the geographic distribution of organisms including the role of geologic, climatic, and biologic changes. Emphasizes the historical and philosophical development of the science and modern methods of analysis.

Prerequisites: Undergraduate evolution and ecology courses, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**BIO 7355. Plant-Water Relations.**

Examination of the physiology and ecology of water use in higher plants, including the uptake, utilization, and movement of water, transpiration and adaptation to variable water availability including drought, and the ecological role of water in structuring plant communities. Prerequisite: BIO 3465 or equivalent, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7356. Pollution of Aquatic Ecosystems.**

Overview of the water quality degradation of aquatic ecosystems (rivers, lakes, wetlands, groundwater aquifers) and their living resources from point and nonpoint pollutant sources. Topics will include aquatic ecosystem pollution and impacts attributable to nutrients, heavy metals, organic chemicals, sediment, salinization, and acid rain. Field trips may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7360A. Industry and Sustainable Aquatic Resources.**

Examination of industrial water needs and uses, the types and quantities of water pollutants produced by different industries, problems faced by industry regarding process water for different manufacturing activities, and the possibilities for industry to contribute to the goal of sustainable aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360B. Environmental Linkages and Sustainable Aquatic Resources.**

Introduction to the environmental relationships between humans and other living beings and the ecological systems in which they exist. Emphasis will be on the potential for individual environmental problems to have serious impacts on other environmental components, as well as the nature of these impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360C. Role of State and Federal Courts in Protection and Maintenance of Aquatic Resources.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360D. Evolutionary Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360E. Advances in Water Quality Investigations.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360F. Approaches to Aquatic Resource Modeling.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360G. Molecular Techniques in Microbial Ecology.**

Lectures on molecular techniques used to analyze structure and function of uncultured microbial communities in the environment with selected examples of applications. Prerequisites: None

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360H. Parasites and Diseases of Fishes and Other Aquatic Animals.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. Prerequisites: Ichthyology

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Topics

**Grade Mode:** Standard Letter

**BIO 7360I. Bayesian Statistics for Biology.**

This course examines the theory and mathematical foundations of Bayesian statistics and provides instruction and experience conducting Bayesian analyses using computer-based procedures. The course emphasizes practical applications for Bayesian statistical procedures for problems in biological sciences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360K. Evolution.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360L. Landscape and Biogeography of Texas.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360M. Wetland Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360N. Behavioral Ecology.**

Examination of evolutionary implications of behavioral interactions through the assessment of current theory and research related to cooperation and conflict, mating and parental conflict and sexual selection. Class will consist of lectures, discussions of recent primary literature, and scientific writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360P. Regulation of Plant Growth and Development.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360Q. Spatial Ecology of Animals.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360R. Community and Ecosystem Ecology.**

Examination of current or emerging state, national and international aquatic resources issues, including root causes and their human and ecosystem interactions. The course may be repeated for credit, depending on the topic. No more than six hours can be counted for doctoral credit without the approval of the Program Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360S. Soil Biology.**

An introduction to the biology of soil systems, including the roles of biota in forming and maintaining soils, and the interactions between biotic and abiotic components in soils

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360T. Karst Hydrogeology and Geomorphology.**

An introduction to, and advanced understanding of, karst hydrogeology, geology, and geomorphology, with emphasis on field and theoretical applications of this information to the study of karst systems, and recognition and understanding of karst landforms at the surface and their relationships with subsurface processes. Pre-requisite: Graduate status and instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360U. Sustainability in a Changing World.**

Understanding the ecological-social interface, including policies, product development and actions towards sustainability, with emphasis on integrating and implementing theories and methods across disciplines, and improving the knowledge and experience base for public policy and decision-making regarding human-environment linkages within the context of sustainable development. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360V. Techniques in Aquatic Biology.**

The course will provide hands on experience with a suite of physical, chemical, and biological sampling techniques and gear used in applied river studies. Students will be exposed to the fundamentals of data quality objectives, accuracy, precision, detection limits, data visualization, exploratory analysis, univariate and multivariate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7360X. Communicating Science.**

This course explores how to successfully disseminate science through visualizations, oral presentations, and written works to multiple audiences. Special emphasis will be placed on communicating with the general public, media and granting agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7360Y. Applied Bioinformatics.**

This course provides an introduction to scripting and other computational techniques used for visualizing and analyzing large biological datasets. Computational techniques include sequence and structural alignment, data mining, phylogenetic tree construction, and data clustering using UNIX, Python, and R. Students will gain a solid foundation in broadly applicable bioinformatics skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7360Z. College Science Teaching.**

This course is designed for graduate students in the sciences who are interested in improving their science teaching and/or are interested in pursuing careers in academia. This course focuses on the central question, "How do college students best learn science, and thus how do we best teach them?"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**BIO 7361A. Discipline-Based Educational Research Methods.**

This course will expose science graduate students to educational research in a practical setting, supervised by a professor experienced in conducting discipline-based educational research, focusing primarily on qualitative methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7361B. Ecology of Temporary Waters.**

Temporary waters (which regularly go dry) are often overlooked. This course explores their diversity, their ecological role and how these systems are impacted by humans. We will also look at the species that rely on temporary waters, their special adaptations, and their populations and community dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BIO 7362. Environmental Impact Analysis.**

Examination of government regulations regarding environmental impact, content of environmental impact statements, procedure for impact studies, application of ecological principles to impact studies, and the review process for environmental impact statements, focusing on aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7366. Integrated Water Resources Management.**

Study of principles for integrated management of aquatic ecosystems, including drainage basin, regional, and transboundary dimensions. Other global issues (climate change, biodiversity, etc.) also are discussed as components of integrative approach for multi-functional programs for sustainable use of aquatic ecosystems. Prerequisites: BIO 7310 and BIO 7412 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7367. Behavioral Ecology.**

Examination of the evolutionary implications of behavioral interactions through the assessment of current theory and research related to social behavior, sexual selection and sexual conflict, and mechanisms of behavior. Students will achieve comprehension and familiarity with the historical development of the field of behavioral ecology through discussions and writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7399A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7401. Assessment Techniques for Aquatic Resources.**

The rationale for designing and implementing monitoring and sampling programs for aquatic resources is examined. General field and laboratory methods for assessing water quantity, water quality and the status of aquatic ecosystems and their living resources, will be introduced. Field trips will be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**BIO 7402. Molecular Field Techniques.**

The application of molecular tools for identifying, quantifying, and interpreting biological diversity assessments in aquatic systems. The course focuses on micro organismal identification and vertebrate model systems

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7405. Statistics and Experimental Design I.**

Introduction to inferential statistics, including exploratory and confirmatory data analysis, estimation and hypothesis testing, analysis of variance and regression, and non-parametric techniques, as applied to aquatic resource issues. Computer applications emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7406. Statistics and Experimental Design II.**

Introduction to the principles of experimental design, including randomization, replication, sample-size determination, completely randomized and randomized block design, factorial design, repeated measure design, and analysis of variance and covariance, as applied to aquatic resource issues. Computer applications emphasized.

Prerequisite: BIO 7405 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7407. Instrumentation for Water Quality Analysis.**

An introduction to the theory and application of laboratory and field instrumentation and techniques for analysis of water quality.

Prerequisite: CHEM 3410 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7408. Fish Ecology and Conservation.**

Examination of the linkages and interactions between fish assemblages and communities and their population ecology. Issues related to flowing and pooled water systems and fisheries conservation also are discussed. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7410. Aquatic Microbial Ecology.**

Examination of microbial organisms, communities, and interactions affecting the form, structure, and functional aspects of aquatic ecosystems. Field trips may be required. Prerequisite: BIO 2400. BIO 3440 (Microbiology) or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7412. Environmental Hydrology.**

Overview of the properties, distribution, and movement of water over and under the land surface and its relation to sustainable aquatic ecosystems, including quantitative methods to assess cumulative impacts of human activities on such systems. Field trips may be required. Knowledge of calculus recommended

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7414. Ecology of Infectious Diseases of Wildlife.**

Concepts of the ecology of infectious diseases in wildlife are studied in depth with emphasis on their application to the management and conservation of wildlife species and for the control of zoonotic diseases. Requires consent from the instructor to enroll

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7415. Ichthyology.**

An introduction to the morphology, taxonomy, natural history, and evolution of fishes. Field trips will be made to collect specimens, and laboratory periods will be devoted to morphological and systematic analyses. Prerequisite: Biology undergraduate zoology course or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7419. Stream Ecology.**

Study of ecological theories, concepts, and processes occurring at the population, community, and ecosystem levels of organization in running water. Laboratory includes sampling methods, descriptive and comparative studies, experiments, and critical discussion of literature. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7421. Landscape Dynamics.**

Study of processes influencing energy and material flows, interactions and cycling in aquatic ecosystems, including system and spatial analysis of landscapes, aquatic ecosystems, land use characteristics, and associated human impacts. Field trips may be required. Knowledge of calculus recommended. Prerequisite: BIO 7412 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7422. Wetlands Ecology.**

Study of the characteristics, classification, conservation and management of marshes and other periodically-inundated ecosystems, emphasizing the interactions of physical, chemical and biological factors. Field trips may be required. Prerequisite: BIO 4416 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7424. Phycology.**

Examination of algae (phytoplankton, periphyton) and their structure, taxonomy, ecology and distribution

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7426. Ecology and Management of Aquatic Macrophytes.**

Examination of aquatic macrophytes and their ecology, taxonomy, distribution and management. Field trips may be required

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7427. Principles of Population Biology I.**

Provides a foundation in theory and mathematics of basic population biology. The course is divided into modular components including defining evolutionary significant units, ecology of populations, genetics of populations, and evolutionary genetics. Prerequisites: BIO 4416 and BIO 2450, or permission of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7428. Principles of Population Biology II.**

Provides a foundation in theory and mathematics of basic population biology. The course is divided into modular components which include: 1) Ecology of Communities, 2) Evolution of Behavior, 3) Phylogenetic Methods, and 4) Biological Diversity and Conservation Biology. Prerequisite: BIO 7427 or permission of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7430. Mycology.**

This course provides an introduction to the organisms in the Kingdom Fungi and to fungus-like organisms, their ecology and evolution, and their role in industry and disease. Special emphasis will be placed on morphology, culturing, and using laboratory techniques for identification

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7433. Population Genetics.**

This course examines the theoretical foundations of population genetics, including the description of population genetic structure and the forces creating it. The course emphasizes application of principles to a wide range of current problems in evolution, systematics and ecology. Molecular methods, data interpretation and computer-based data analysis are emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7434. Herpetology.**

A course treating the origin and evolution of amphibians and reptiles; their reproductive and physiological tactics; taxonomy/systematics; and population biology. While cosmopolitan in scope, emphasis will be placed on North American species and those groups inhabiting Texas

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7440. Aquatic Toxicology.**

Introduction to principles for identifying and assessing the adverse effects of chemicals and other compounds and mixtures on aquatic organisms and ecosystems. Completion of BIO 7402 is recommended prior to enrollment in BIO 7440

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7447. Microbial Physiology and Genetics.**

Prokaryotes, including bacteria and archaea, are the most diverse group of organisms on earth. Many prokaryotes live in environments which are inhospitable to other life forms. This course covers major aspects of prokaryotic physiology and genetics that permit them to be so successful. Prerequisites: BIO 2400 and BIO 2450 or equivalents

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7466. Phylogenetics.**

Study of the use of phylogenetic methodologies in aquatic research, including practical data collection, management, and analysis in the reconstruction of phylogenies. Laboratory exercises will introduce phylogenetic and DNA analysis software. Prerequisite: BIO 2450, BIO 4369 and BIO 5466, or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7468. Groundwater Resources.**

Study of the geological, physical, chemical and biological factors influencing sustainable groundwater resources, including hydrologic linkages and interactions with surface aquatic resources. Emphasis will be on the karst aquifer systems of Central Texas, and other groundwater aquifer systems of the United States

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7469. Introduction to Ecological Modeling.**

Mathematical models range from simple conceptual models to complex mechanistic models for mimicking behavior of natural systems. This course provides a broad overview of modeling objectives, techniques and assumptions, as well as the practical skills needed to conduct modeling projects. Computer applications emphasized. Prerequisite: MATH 2471 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BIO 7470. Limnology.**

Physical, chemical, and biological factors affecting productivity in lakes, ponds, and streams. Limnology sampling methods, chemical and biological analysis of samples, and hydrographic surveying are included in the laboratory. Prerequisite: One year of chemistry or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7471. Reservoir Ecology.**

Study of the physical, geological, chemical, and biological factors that influence and form structural and functional aspects of reservoir ecosystems. Lab focuses on field, laboratory, and mathematical approaches to quantifying and managing these important ecosystems. Field trips may be required. Prerequisite: BIO 4470 or BIO 5470 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7475. Restoration of Polluted Aquatic Resources.**

Overview of methods for treating or restoring aquatic resources degraded by pollution and related anthropogenic impacts. Topics include point and nonpoint source pollution of surface waters and groundwater aquifers, pollution from storage and waste disposal sites, aquatic habitat rehabilitation, and on-site methods. Field trips may be required. Prerequisite: BIO 7356 or consent of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**BIO 7599A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7699A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**BIO 7999A. Dissertation.**

Original research and writing in Aquatic Resources, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), non-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Business Administration (B A)

**B A 2310. Introduction to Business in a Global Environment.**

The course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross border impacts of culture, politics, and law on trade, investment, marketing, management, and accounting and financial systems. Restricted to BBA students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 4300. Independent Study in Global Business.**

This study abroad course introduces students to the international business environment. Topics include cultural, political, social, and economic factors affecting international business, and the regulatory and ethical environment of global businesses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**B A 4312. International Business Internship.**

Integration of professional and academic experience through internship in an international business related activity with an external employer.

Prerequisites: International Business Minors only, junior or senior classification, enrollment subject to availability and approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**B A 4315. International Trade Operations.**

This course examines the basics of international trade operations, focusing on the procedures, documentation, and regulation pertaining to export and import operations from the perspectives of exporters, importers, and various intermediaries. Prerequisites: MGT 3375 and MKT 4310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**B A 5100. Business Professional Development Seminar.**

This course is designed to contribute to the development of the business professional. Academic content is supplemented by training in soft skill topics to better prepare the students for a successful business career.

Prerequisite: MBA students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**B A 5351. Organizational Performance and Competitive Advantage.**

This course is designed to provide an integrative understanding of the firm. A variety of organizational models and perspectives will be incorporated to facilitate understanding of the complexities of the firm, its environments, and its relationships with stakeholders. Includes focus on case analysis issues and communication skills. Prerequisite: MBAs only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5352. Developing the Financial Perspective of the Firm.**

Development of the theoretical basis and presentation of accounting and finance. Topics include understanding the basic elements of financial statements, the use of accounting information in decision making, and the techniques for the acquisition and management of the firm's financial resources. Prerequisite: B A 5351 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5353. Understanding and Analyzing Organizational Problems.**

An introduction to the concepts of economic theory and statistics, with an emphasis on developing skills in data and economic analysis to solve business problems. Coverage includes prices, costs, market structures, macroeconomic policies, central tendencies in data, confidence intervals, hypothesis testing, and regression. Prerequisite: B A 5351 or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**B A 5368A. MBA Full Time Cohort International Experience.**

This course will focus on developing an understanding and analysis of issues related to business challenges in another country. Students will gain first-hand experience with the business practices, culture and economy of another country

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Business Law (BLAW)

**BLAW 2361. Legal Environment of Business.**

A survey of basic features of the American legal system and legal aspects of business transactions. Topics include the nature and sources of law, court systems and procedures, agency, torts, contracts, ethics, and government regulation of business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BUSI 2301

**BLAW 3360. Business Organizations and Government Regulations.**

This course studies corporations, partnerships, limited liability companies, securities law, law for small business, administrative law, consumer law, environmental law, antitrust law, and insurance. Prerequisite: BLAW 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BLAW 3363. International Business Law.**

This course studies the principles of international business law which emphasizes the commercial activities of the multinational firm conducting business in global economic, political, social and cultural environments. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**BLAW 3364. Commercial Law.**

This course studies sales law, negotiable instruments, secured transactions, suretyship, bankruptcy, personal property and bailments, real property, and creditors' rights and remedies. Prerequisite: BLAW 2361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BLAW 3367. Employment Law.**

This course studies the legal developments in the workplace, with emphasis on attempts to maintain a proper balance between employees' interest in earning a livelihood and employers' interest in operating their business efficiently and profitably. Prerequisite: PHIL 1320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BLAW 4395. Independent Study in Business Law.**

An in-depth study of a single topic or related problem solved through business law research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**BLAW 5308. The Legal, Ethical, and Regulatory Environment of Business.**

A broad based course on the fundamentals of business law, as viewed from the managerial standpoint. Topics include court systems, constitutional law, contracts, sales, consumer rights, employment, antitrust, agency and ethical considerations. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**BLAW 5310. The Employment Relationship.**

A study of trends in the rapidly evolving "law of workplace," with emphasis on how lawmakers attempt to balance the rights and responsibilities of employers and workers. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**BLAW 5368A. Judicial and Legislative Trends in the Legal Environment of Business.**

An examination of recent court cases and legislation enacted or that may be pending before Congress in order to understand the impact of current laws on business activity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368B. Law and Ethics in the Business Environment.**

An examination of the ethical dimensions of management decision-making. Problems are viewed through the lens of a value system determined, in part, by the legal system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368D. Business Dispute Administration.**

Course describes civil and religious law systems, both in the U.S. and abroad, alternative dispute resolution programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368E. Environmental Law and Policy.**

Course attempts to integrate the study of environmental law w/ concepts from other disciplines necessary to an assessment of the law, primarily economics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**BLAW 5368F. Business Law for Entrepreneurs.**

Course explores steps that an entrepreneur who is contemplating leaving an employer can take to make the departure amicable

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**BLAW 5368G. Legal Issues in International Business Law.**

Emphasis in Latin American Business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Topics**Grade Mode:** Standard Letter**BLAW 5368H. Legal Issues of Sustainability and Responsibility.**

Diverse frameworks and analytical methods underlying our understanding of sustainability are explored, including the legal aspects &amp; impact on business, society, environment and economy. Topics include corporate governance, globalization, urbanization, energy, human population, food, natural resources, water and equity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Topics**Grade Mode:** Standard Letter**BLAW 5368J. Commercial Law.**

A traditional business law course which examines sales, negotiable instruments, creditor's rights and remedies, secured transactions, bankruptcy law, personal property, bailments, real property and landlord-tenant relationships. Prerequisites: BLAW 2361, graduate status, and good academic standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Topics**Grade Mode:** Standard Letter**BLAW 5368K. Business Organizations and Government Regulations.**

A traditional business law course which examines agency, employment law, partnerships, limited liability companies, corporations, securities law, law for small business, administrative law, consumer law, environmental law, antitrust law, and insurance. Prerequisites: BLAW 2361, graduate status, and good academic standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Topics**Grade Mode:** Standard Letter

## Career and Technical Education (CTE)

**CTE 3304. Human Relations for Career and Technical Education Teachers.**

This course emphasizes the combination of psychological and sociological factors that influence relationships of CTE teachers in the pursuit of professional duties. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**CTE 3307. Selection, Placement, and Follow-up in Career and Technical Education.**

This course provides an overview of the practices of occupational selection, placement of students in suitable employment and cooperative sites, and coordinating the relationship between school and workplace site

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**CTE 3308. Problems in Cooperative Training.**

The course highlights the organization, presentation, and selection of content material necessary in part-time work-based learning programs. The need for community, workplace/industry, family, school, and student partnerships in curricular assessment is emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**CTE 3313A. Special Needs Students in CTE.**

This course involves in-depth studies of characteristics, principles of inclusion, development and implementation of individualized programs of instruction and collaboration with school personnel for effective education of special needs students, including special education, limited-language proficiency, and gifted and talented students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing|Topics**Grade Mode:** Standard Letter**CTE 3313C. Entrepreneurship.**

This course involves study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. It includes strategies for teaching entrepreneurship in CTE

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing|Topics**Grade Mode:** Standard Letter**CTE 3313D. Leadership and Professional Development.**

This course is designed to be applicable to all CTE areas in public, private, and corporate education. The course addresses professional growth, leadership styles, skills, and teaching leadership. Trends, policies, and procedures relating to leadership in career and technical areas are highlighted

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing|Topics**Grade Mode:** Standard Letter**CTE 3313E. Introduction to Interdisciplinary Studies for the Bachelor of Applied Arts and Sciences Degree.**

Introduction to an individualized degree and interdisciplinary studies, reflection on past and future career directions, critical thinking, professional communication, role of information technology in the workplace, leadership development concepts, writing across disciplines, planning for nontraditional options to earn college credit, including prior learning assessment (PLA), and proposing capstone experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing|Topics**Grade Mode:** Standard Letter**CTE 3320. Effective Methods of Teaching and Training.**

This is an introductory/fundamental course for instructors in trade and industrial education seeking certification and technical trainers who are not seeking certification. It is designed to prepare these individuals to apply effective teaching principles and techniques, to prepare lesson plans, and manage classrooms. Practice teaching will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Grade Mode:** Standard Letter



**CTE 3321. Work-based Learning in Career and Technical Education.**

This course is intended for teacher coordinators of work-based program in trade and industrial cooperative education. There is an emphasis on selection of occupations and appropriate training stations, student recruitment, instruction coordination in on-the-job educational experiences, state and local report preparation and required record keeping systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 3322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 3323. Technology Applications.**

This course covers the use and integration of computers in the classroom or office. Topics include history of computers, use of word processor, spreadsheet, and presentation software; overview of common computer programs; history and use of the Internet, and web-page creation. T&I students will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 3340. Occupational Skills for the 21st Century.**

This course allows students to explore past and present occupational trends, new and emerging occupations and the 21st century occupational skills necessary for success. Students will explore transferability of occupational skills and how these skills are applied and packaged for career transitions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 3380. Management of Business Office Education Training Programs.**

This course is for instructors in educational and industry settings and involves the identifications of federal, state, and local policies, the coordination of work-based learning programs, the benefits of student and professional associations, public relations. Students will make visits to local classroom or training facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 3381. Instructional Strategies in Business Office Education Training Programs.**

This course provides an overview of identifying curriculum, individual learning styles, instructional strategies, providing support for students with special needs, non-gender biased instruction, appreciation of diversity, and the use of technology and assessment in business office educational programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 4302. Coordination Techniques.**

This course presents an overview of the cooperative program in marketing and distributive education (MDE), the establishments of MDE programs, the guidance, selection and placement of students, adjustment of work for individual needs, setting student objectives, evaluation, labor laws, and public relations relevant for MDE programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 4304. Organization and Management of Marketing Education Programs.**

This course provides instruction on the organization and administrative structure of marketing organization in the United States. Additionally, the use of objectives, program improvement techniques, appropriate teacher selection techniques, and evaluative criteria are emphasized in relation to marketing and distributive education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 4310. Independent Study in Career and Technical Education.**

This course is an independent study of various subjects in CTE. Work is done on an independent basis under the direction of the faculty member. Repeatable for credit with different emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CTE 5300. Career and Technical Education Student Identification, Placement, and Follow-up.**

This course provides an overview of the theory, methods, and instruments used in determining occupational aptitude, programs of job placement, and the study of the development and coordination of student follow-up

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5301. Technology of Teaching.**

This course presents the research and theory related to the technology of teaching. Topics include learning theories, effective teaching techniques, motivation and performance, evaluation, and classroom dynamics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5302. Coordination Techniques.**

This course emphasizes the establishment of cooperative education programs, guidance, selection, and placement of students, work adjustment, the setting of student objectives, evaluation, labor laws, current research, and public relations for cooperative education programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5304. Organization and Management of Marketing Education Programs.**

This course highlights the organization and administrative structure of both school based and workplace based marketing education programs in the United States. The course includes a discussion of objectives, programs, practices, teacher selection and supervision, and evaluative criteria for business education departments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5305. Laboratory and Classroom Organization and Management.**

This course involves the organization and management of CTE classroom and instructional laboratories and related materials. It includes the establishment of record and inventory systems, establishment of student rotations, hygiene and safety requirements, working with suppliers and potential donors, and maintenance of equipment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5306. Instructional Materials Development Technology.**

This course provides students opportunities to develop knowledge, skills, and abilities relevant to assessing instructional materials in education and training, within the context of real-world settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5307. Selection, Placement, and Follow-Up in Cooperative Education.**

This course provides an overview of organizing and operating cooperative training programs in the community. It includes instruction in the procedures for assisting in the selection of occupations appropriate for students, assisting students in managing school and work time, and coordinating of school and workplace instructional efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5308. Problems in Cooperative Training.**

This course provides a review of basic standards for cooperative education, underlying reasons for standards, and current issues/problems in cooperative education programs. Students will discuss and provide solutions to current dilemmas of cooperative education, through the use of organizational research techniques and organizational problem solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5312. Development, Organization, and Use of Instructional Material.**

This course involves the selection of lesson content, lesson planning, and instructional material development. The emphasis is on the effective development and evaluation of instructional materials. A variety of methods will be taught to gather and utilize instructional materials

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5313C. Teaching Entrepreneurship in Career and Technical Education.**

This course includes a study and analysis of ownership, marketing strategies, location, financing, regulations, managing, and protecting a business. Students will analyze current research and techniques in teaching entrepreneurship in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313D. Leadership and Leadership Activities for Career and Technical Education Teachers.**

This course provides an overview of leadership and management styles, theories, and current research. An overview of leadership development techniques utilized in various CTE settings will be provided

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313F. Human Performance in the Workplace.**

The course provides an overview of current quality improvement strategies utilized in business and industry settings. Topics include the teaching of HPT, organizational culture, teamwork, leadership, measuring improvement, statistical process control, and restructuring of work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313K. Interdisciplinary Studies in Occupational, Workforce, and Leadership Studies.**

This course provides an overview of interdisciplinary studies frameworks in the fields related to occupational, workforce, and leadership studies.

Students investigate career options, develop plans of study, integrate interdisciplinary academic material, and refine interdisciplinary writing skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5313L. Emergent Workplace Perspectives.**

This course examines the emergent and evolving nature of the modern workplace. Students will explore topics related to interdisciplinary perspectives in the workplace such as inequality related to gender and race, workers' rights, knowledge, control, the role of technology, and globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CTE 5314. Human Relations for Career and Technical Education Teachers.**

This course includes a study of methods of establishing and maintaining effective relationships with students, co-workers, families, business and industry, and community members. Strategies for teaching students and mentoring employees on the dynamics of human relations are highlighted

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5320. Effective Methods of Teaching and Training.**

This fundamental course is for trade and industrial educators seeking certification and technical trainers who are not seeking certification. It is designed to prepare them to apply effective teaching principles and techniques. Lesson plans will be prepared, classrooms managed, and practice teaching included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5321. Work-based Learning in Career and Technical Education.**

This course is intended for teacher coordinators of work-based programs in trades and industrial cooperative education. There is an emphasis on selection of occupations and training stations, student recruitment, instructional coordination in numerous on-the-job experiences, state and local reports, and recordkeeping requirements. Research is conducted on local districts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5322. Teaching and Training as Professions.**

This course emphasizes the professional requirements of teaching and training in a variety of settings. Professional topics include licensure and preparation for the profession, organizations, philosophical foundations of teaching and training, and the socio-political landscape of teaching and training. Research is conducted on reform efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5323. Technology Applications.**

This course covers the use of computers in the classroom or office. Topics include history of computers, philosophies of computer integration, research in computer use, overview of common computer programs, and history and use of the Internet. Trades and Industry teacher candidates will review for the TExES examination

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5330. Overview of Interdisciplinary Research.**

Students will become familiar with various interdisciplinary research methods, learn concepts related to research, and conduct reviews and critiques of academic research articles. The application of academic research to practical problems will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5341. Supervision of Career and Technical Education.**

This course provides an overview of skills and attitudes for the supervision of personnel in the field of CTE. Students will learn the dynamics of supervision, the supervisor's role in the workplace, and the evaluation of instructional and other personnel in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5355. Career Education and Occupational Information in Career and Technical Education Guidance.**

This course deals with the collection, evaluation, and interpretation of common occupational, career, and personal information. It includes an overview of current theory and research in occupational selection techniques, psychological and sociological factors in career selection, and job analysis. The emphasis is on the practical application in CTE settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5380. Management of Business Office Education Training Programs.**

This course is for instructors in industry and business education settings and involves an in-depth analysis of governmental policies relating to teaching and training in business education, working with cooperative education students, assisting individuals with the transition to the workplace and further education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5381. Instructional Strategies in Business Office Education Training Programs.**

This course is designed for instructors in educational and industry settings. Students will learn to prepare in-depth individualized units of instruction, which include selecting curriculum, incorporating technology in teaching and training, and methods of assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CTE 5390. Independent Study in Career and Technical Education.**

This is an independent study course involving the study of important and timely topics in CTE. Students complete the study at the direction of the faculty member. This course may be repeated with different topics with departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Chemistry (CHEM)

**CHEM 1141. General Chemistry Laboratory I.**

First of two laboratory courses in general chemistry for science-related majors. Course introduces the students to the basics of experimental measurements, including density, separation techniques, formula determinations, titrations, thermodynamics, gas laws, and descriptive chemistry. Prerequisite or Co-requisite: CHEM 1341, CHEM 1335, or CHEM 1310

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1111

**CHEM 1142. General Chemistry Laboratory II.**

Second of two laboratory courses in general chemistry. Laboratory techniques are emphasized, and applied to both qualitative and quantitative analysis. Prerequisites: CHEM 1341 and CHEM 1141. Prerequisite or Co-requisite: CHEM 1342

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1112

**CHEM 1310. Introductory Chemistry for Non-Science Majors.**

A one semester principles course for students in non-science related majors. Course covers the major concepts of chemistry and the role of chemistry in contemporary society. Students will not receive credit for both CHEM 1310 and CHEM 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1305

**CHEM 1335. Engineering Chemistry.**

This one semester lecture course is tailored to engineering students. Topics include stoichiometry, gases, chemical bonding and structure, periodic trends, materials, energy, kinetics, equilibrium, electrochemistry and nuclear chemistry. Course is a stand-alone course and does not serve as a prerequisite to any courses currently requiring CHEM 1341 as a prerequisite. Restricted to Electrical Engineering, Construction Science and Management, Concrete Industry Management, and Technology Management majors. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 1341. General Chemistry I.**

Initial lecture course in general chemistry for science-related majors, covering atomic and molecular structure, bonding, states of matter, solutions, and descriptive chemistry. Students will not receive credit for both CHEM 1310 and CHEM 1341. Concurrent registration in CHEM 1141 is recommended. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1311

**CHEM 1342. General Chemistry II.**

Second of two lecture courses in general chemistry for science-related majors, covering equilibrium processes, acid-base chemistry, and kinetics, and electrochemistry. A basic knowledge of algebra is needed. Concurrent enrollment in CHEM 1142 is recommended. Prerequisite: CHEM 1341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1312

**CHEM 1430. Chemistry for Non-Science Majors.**

A one semester course which surveys organic and biochemistry and may include petro-chemistry, nuclear chemistry, synthetic and natural polymers. Prerequisite: CHEM 1310 or CHEM 1341

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** CHEM 1407

**CHEM 2130. Laboratory Technique in Organic Chemistry.**

An optional laboratory to accompany CHEM 2330, covers experimental techniques of preparation, purification, and determination of physical and chemical properties of organic compounds. Prerequisites: CHEM 1342 and CHEM 1142. Co-requisite: CHEM 2330

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 2141. Organic Chemistry Laboratory I.**

This laboratory introduces the student to the general techniques of organic chemistry. Prerequisites: CHEM 1342 with a grade of "C" or higher, CHEM 1142. Prerequisite or Co-requisite: CHEM 2341

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2123

**CHEM 2142. Organic Chemistry Laboratory II.**

This laboratory involves the study of typical organic reactions. Prerequisites: CHEM 2341 with a grade of "C" or higher, CHEM 2141. Prerequisite or Co-requisite: CHEM 2342

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2125

**CHEM 2150. Biochemistry & Metabolism Lab.**

An optional laboratory to accompany CHEM 2350. This laboratory examines the physical properties and chemistry of carbohydrates, amino acids, proteins, lipids and nucleotides. Course is designed for students majoring in nutrition, clinical laboratory science and agriculture. Prerequisites: CHEM 2330/CHEM 2130 or CHEM 2342/CHEM 2142. Co-requisite: CHEM 2350

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 2330. Fundamentals of Organic Chemistry.**

A one-semester course which covers nomenclature, structure and reactions of organic compounds with an introduction to bioorganic molecules. Course is designed for students majoring in nutrition, clinical laboratory sciences and agriculture. Prerequisites: CHEM 1342 and CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 2341. Organic Chemistry I.**

This course covers the nomenclature, reactions and reaction mechanisms of the hydrocarbons and the alkyl halides. Prerequisites: CHEM 1342 with a grade of "C" or higher. Pre- or Co-requisite: CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2323

**CHEM 2342. Organic Chemistry II.**

This course covers the nomenclature, reactions and reaction mechanisms of the major functional groups. Prerequisite: CHEM 2341 with a grade of "C" or higher. Prerequisite or Co-requisite: CHEM 2141

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHEM 2325

**CHEM 2350. Biochemistry & Metabolism.**

A one-semester study of carbohydrate, proteins, lipids and nucleotides which presents both structure and intermediary metabolism along with an introduction to the function of enzymes and coenzymes. Course is designed for students majoring in nutrition, clinical laboratory science and agriculture. Prerequisites: CHEM 2330/CHEM 2130 or CHEM 2342/CHEM 2142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3245. Physical Chemistry Laboratory.**

Experiments illustrating principles and methods of physical chemistry are performed. Written reports on the experiments are prepared. Prerequisites: CHEM 3330 with a "C" or better, and CHEM 3410. Prerequisite or Co-requisite: CHEM 3340. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter



**CHEM 3275. Biochemical Techniques.**

Course introduces biochemistry majors to techniques in analytical and physical biochemistry. Experiments reinforce fundamental concepts and utilize modern instrumentation. Experimental design, interpretation of results, and data reporting will be emphasized. Prior completion or concurrent enrollment in BIO 2400 is strongly recommended.

Prerequisites: CHEM 3375 with a grade of "C" or higher. Co-requisite: CHEM 3380. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 3276. Experimental Biochemistry.**

Course introduces biochemistry minors to the fundamental techniques used in modern biochemistry. Experiments use the essential techniques employed in the study of proteins, enzymes and nucleic acids with emphasis on the use of modern instrumentation and the manipulation and analysis of experimental data. Prerequisites: CHEM 3375 or CHEM 4375 with a grade of "C" or higher

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 3330. Physical Chemistry I.**

The course covers principles of thermodynamics and thermochemistry, phase equilibria, electrochemistry and elementary kinetics including rate laws and mechanisms. Prerequisites: CHEM 1142; CHEM 1342 and MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3340. Physical Chemistry II.**

The course covers kinetics, quantum mechanics, spectroscopy, and other selected topics. Prerequisites: CHEM 3330 with a C or better; MATH 2472 with a "C" or better; and PHYS 2425 with a grade of "C" or higher

**3 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3341. Descriptive Inorganic Chemistry.**

An analysis of atomic, molecular, and solid state bonding and structure with an emphasis on coordination compounds and bioinorganic chemistry. Representative compounds and reactions of the elements will be surveyed. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3375. Principles of Biochemistry.**

Course provides biochemistry majors and minors with a rigorous introduction to biochemistry. Topics include the chemical function and structure of proteins, nucleic acids, lipids and carbohydrates; enzyme mechanisms, kinetics and regulation. Prior completion or concurrent enrollment in BIO 2450 is strongly recommended. Prerequisites CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3380. Analytical Biochemistry.**

This course is designed to acquaint the student with the chemical and physical principles of modern biochemical methods. Emphasis is placed upon the application of the methods to current problems in biochemistry and molecular biology and the interpretation of data. Prerequisite: CHEM 3375 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3390. Physical Chemistry for Biochemists.**

A study of the theories and laws of physical chemistry as it relates to biochemistry. The topics covered include ideal and real gases, classical thermodynamics, reaction kinetics, phase equilibria, electrochemistry, quantum mechanics, spectroscopy and statistical mechanics.

Prerequisite: CHEM 3375 and MATH 2472 with a 'C' or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 3410. Quantitative Analysis.**

Course covers the general theory and practice of typical methods of gravimetric and volumetric analysis, satisfies the quantitative analysis requirements for chemistry majors, minors, pre-medical and pharmacy students. Prerequisites: CHEM 1342 with a grade of "C" or higher, CHEM 1142

**4 Credit Hours. 3 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 4231. Advanced Laboratory I.**

An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of organic and inorganic materials. Prerequisites: CHEM 3245, CHEM 3340, CHEM 3410. Prerequisite or Co-requisite: CHEM 4331. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4241. Advanced Laboratory II.**

An advanced integrated lab illustrating a variety of chemical techniques for the preparation, characterization and analysis of inorganic and organic materials. Prerequisites: CHEM 4331, CHEM 4231. Prerequisite or Co-requisite: CHEM 4341. (WI)

**2 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4282. Advanced Biochemistry Research Laboratory.**

The second of two laboratory courses providing instruction in the modern techniques of biochemistry. Students will perform independent research projects involving isolation, manipulation and characterization of biomolecules. Results of these experiments and the scientific literature investigations will be used to prepare formal written reports and oral presentations. Prerequisite: CHEM 4481. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter



**CHEM 4295. Laboratory Development and Practice.**

This course develops the laboratory instructional abilities of students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments. Prerequisite: Junior standing and an overall GPA of 2.5 or higher

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 4299. Undergraduate Research.**

This course is available to undergraduate chemistry or biochemistry majors only. It may be repeated for credit but a maximum of four semester hours from this course are applicable toward advanced chemistry electives. Prerequisite: Permission of department

**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**CHEM 4310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined. Prerequisites: CHEM 2342 and CHEM 2350 or CHEM 3375 or CHEM 4375 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4331. Instrumental Analysis.**

The theory and methodology associated with the quantitative analysis of materials, i.e., electronics, spectroscopy, electrochemistry and chromatography are presented. Prerequisite: CHEM 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4333. Spectroscopy.**

The study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4341. Advanced Inorganic Chemistry.**

This course will use group theory analysis to predict vibrational spectra and bonding in molecules, including metal complexes. Numerous approaches (acid/base, redox, etc.) will be employed to rationalize the products of inorganic and organometallic reactions. The materials properties of solids and nanomaterials will also be discussed. Prerequisites: CHEM 3341 and CHEM 4331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4350. Modern Molecular Modeling.**

A study of the application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, forcefield based molecular modeling, molecular energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction and mesoscale modeling. Prerequisite: CHEM 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4351. Introduction to Polymers.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4360. Molecular Biology.**

This course provides Biochemistry majors and minors with advanced knowledge of the field of molecular biochemistry. Topics include gene expression (transcription and translation of genes in bacteria and higher organisms), post-translational modification of proteins, chromosomal DNA replication, cell cycle checkpoint controls, DNA damage and repair, as well as theories of cancer and aging. Prerequisite: CHEM 3375 or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4371. Directed Study.**

Independent study on a particular subject area in chemistry or biochemistry. The specific study area, resource material, goals, and achievements will be approved by the instructor. Prerequisites: CHEM 2342 with a C or better, and permission of department

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CHEM 4375. Biochemistry.**

Course provides Chemistry majors and minors with an overview of biochemistry topics. Topics include a description of the structure and function of proteins, enzymes, nucleic acids, lipids and carbohydrates. Students may not receive credit for both CHEM 3375 and CHEM 4375. Prerequisites CHEM 2342 with C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4385. Metabolism.**

A study of the biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Prerequisite: CHEM 3375 or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 4390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena. Prerequisite: CHEM 2342 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 4481. Advanced Biochemistry Lab I.**

The first of two laboratory courses providing instruction in the modern techniques of biochemistry. Experiments are performed on the isolation, manipulation and characterization of DNA, RNA and proteins. Students will prepare formal written reports and oral presentations. Prerequisites: CHEM 3275 with a grade of "C" or higher; CHEM 3380. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CHEM 5110. Seminar in Chemistry.**

A course designed to acquaint the graduate student with current research areas in chemistry. May be repeated twice for total of 3 semester hour credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5195. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5285. Laboratory Development Practice.**

This course develops the laboratory instructional abilities of post-baccalaureate students seeking either 8-12 Chemistry or 8-12 Physical Science Teaching Certification. Topics include both traditional laboratory techniques and guided inquiry techniques, safety, laboratory management, pedagogical theory and practical knowledge of laboratory experiments

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CHEM 5295. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance graduate assistants' laboratory instruction abilities. Topics covered in the course include effective lecture techniques, laboratory safety, theory and practical knowledge on laboratory experiments and laboratory section management. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CHEM 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5310. Medicinal Chemistry.**

This course surveys modern approaches to drug discovery and mechanisms of drug action with the focus on molecular structures of drugs. Examples of drug discovery for the chemotherapy of cancer, microbial and cardiovascular diseases will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5312. Organometallic Chemistry.**

This course will survey the structure, bonding, and reactivity of organometallic complexes. Homogeneous catalysis of the transition metals as well as the main group elements along with specialized "seminal research papers" in the field of organometallic chemistry will also be presented. Prerequisites: CHEM 2342 and CHEM 3341 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5320. Modern Molecular Modeling.**

The application of computational techniques to molecular modeling. Topics covered include quantum mechanical modeling, force field based molecular modeling, energy minimization, molecular dynamics, vibrational spectra, solution of crystalline structures, diffraction patterns, molecular blends, phase equilibria, crystal morphology, physical property prediction, and mesoscale modeling. Prerequisites: CHEM 3340 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5321. Advanced Organic Chemistry.**

Study of the relation of the following topics to structure and reactions of organic compounds: bonding, stereochemistry, acid-base concepts, physical organic chemistry, reactive species, and mechanisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5330. Physical Chemistry.**

Fundamentals of physical chemistry are surveyed, emphasizing application in the other chemical sub-disciplines. Topics include classical thermodynamics, kinetics, atomic structure, and molecular spectroscopy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5333. Spectroscopy.**

Study of various spectrometric techniques in qualitative and structural analysis of chemical substances. Prerequisites: CHEM 2342 and CHEM 2142. Students who have completed CHEM 4333 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5341. Advanced Inorganic Chemistry.**

Chemical bonding, symmetry, and group theory, coordination chemistry, spectroscopy, magnetism, and organometallic compounds along with some descriptive chemistry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CHEM 5351. Introduction to Polymers and Polymer Synthesis.**

This course is designed to develop the student's general understanding of polymer history and importance as well as terminology, structure, and synthesis. The overall scope of the course will be to develop the student's general knowledge of polymer synthesis and structure. Students who have completed CHEM 4351 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5353. Polymer Processing and Characterization.**

This course is designed to explore the areas of polymer processing and characterization. Students will be introduced to extrusion, injection molding, film formation, thermoforming, thermal-mechanical measurements, classical mechanical testing, thermal-optical measurements, and methods for determination of polymer molecular weight. Prerequisites: CHEM 2342 and CHEM 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5355. Physical Chemistry of Polymers.**

A study of the physical chemistry of polymers. Subjects covered include thermodynamics, kinetic polymerization, phase relationships, molecular geometry, spectroscopy of polymers, polymer physics and mechanical behavior, polymer blends, rheology, and polymer composites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5365. Separation Methods in Chemical Analysis.**

The principles of gas chromatography, capillary electrophoresis, and mass spectrometry are discussed with a balance among theory, practice, and application

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5370. Problems in Chemistry.**

Open to graduate students on an individual basis by arrangement with the faculty member concerned. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5375. Biochemistry.**

A course devoted to a study of the chemistry of carbohydrates, lipids, proteins, enzymes, and nucleic acids. A study of enzyme kinetics and thermodynamics of coupled reactions is included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5381. Physical Biochemistry.**

An introduction to the physical techniques of biochemistry with emphasis on the interpretation of experimental data obtained from electrophoresis, chromatography, immunological methods, ultracentrifugation, spectroscopy and emerging techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5382. Enzymology.**

A study of the chemical and physical properties of enzymes. Topics will include structure-function relationships, elucidation of chemical and kinetic mechanisms, and the role of enzymes in metabolism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5383. Molecular Biology & Molecular Genetics.**

This course addresses the basic genetic mechanisms of bacteria and eukaryotes and introduces some examples of the biochemical and genetic techniques employed to study cells, tissues, and organisms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5384. Current Topics in Biochemistry and Molecular Biology.**

Course provides students with advanced knowledge in the areas of biochemistry and molecular biology. Topics include signal transduction and the molecular biology of cancer, as well as emerging topics in Genomics, Proteomics, and other new developments in biochemistry.

May be repeated once for credit. Prerequisites CHEM 4360 or CHEM 5383

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5385. MPMetabolism.**

A study of biodegradation and biosynthesis of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Students who have completed CHEM 4385 or its equivalent may not take this course for master's credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5386. Proteins.**

This course will cover advanced biochemistry topics related to proteins. Topics will include protein structure, structure-function relationships, and current methodologies for examining proteins in addition to current findings in primary literature. Prerequisite: CHEM 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5387. Nucleic Acids Chemistry.**

This course will cover advanced biochemistry topics related to nucleic acids. Topics will include nucleic acid structures and properties, catalytic nucleic acids, protein-nucleic acid interactions, higher order complexes of protein-nucleic acids, and current methodologies for examining nucleic acids in addition to current findings in primary literature. Prerequisite: CHEM 5383 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5390. Supramolecular Chemistry.**

This course is designed to be a survey of the nature of non-covalent interactions between host and guest species. Emphasis will be focused on the rational design of hosts, thermodynamic and kinetic parameters involved in binding and the applications of various binding/recognition phenomena

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5395. Fundamentals of Research.**

Course is designed to acquaint the beginning graduate student with materials and methods of chemical research

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CHEM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in CHEM 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CHEM 7330. Environmental Chemistry.**

An introduction to environmental chemistry, with an emphasis on aquatic resources. Basic principles of geochemistry and atmospheric chemistry, as they relate to pollutant impacts on aquatic ecosystems, also will be examined. Prerequisites: CHEM 1341/CHEM 1141, CHEM 1342/CHEM 1142, CHEM 2341/CHEM 2141, CHEM 2342/CHEM 2142 and CHEM 3410, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Chinese (CHI)

**CHI 1410. Beginning Chinese I.**

Introduction to listening, speaking, reading, and writing skills within a Chinese cultural framework. Students who take CHI 1410 toward degree requirements must also complete CHI 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 1411

**CHI 1420. Beginning Chinese II.**

Continued practice in listening, speaking, reading, and writing skills within a Chinese cultural framework. Students who take CHI 1410 toward degree requirements must also complete CHI 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 1412

**CHI 2310. Intermediate Chinese I.**

Continued development and review of all language skills within a Chinese cultural framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 2311

**CHI 2320. Intermediate Chinese II.**

More advanced practice in all language skills with greater emphasis on reading within a Chinese cultural framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CHIN 2312

**CHI 3301. Conversational Chinese.**

This course is designed to improve oral communication skills in Chinese using current video and text media. The course will include the development of vocabulary and grammar necessary for communication and will focus on selected cultural themes. Students' group video projects will be posted on a course blog

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Clinical Laboratory Science (CLS)

**CLS 3305. Introduction to Clinical Laboratory Techniques.**

Clinical Laboratory Science students will be introduced to techniques, procedures, and instrumentation commonly used in clinical laboratories. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required/Writing Intensive

**Grade Mode:** Standard Letter

**CLS 3323. Clinical Microscopy and Analysis of Body Fluids.**

Study of body fluids present in the various anatomical compartments of the body as they differ in health and disease. Physical and chemical tests, and microscopic examination of select body fluids are performed

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 3326. Medical Parasitology.**

This course includes lecture and laboratory instruction in medically important parasites producing disease in humans with emphasis on epidemiology, life cycles, identifying characteristics, and pathology of these parasites

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CLS 3410. Clinical Chemistry I.**

Designed to acquaint the clinical laboratory science student with some of the concepts, techniques, procedures, and instrumentation used in clinical chemistry

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 3412. Hematology/Coagulation I.**

Qualitative and quantitative evaluation of formed elements of the blood and studies in coagulation abnormalities

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 3424. Clinical Immunology.**

Principles of immune response and underlying immunologic procedures of diagnostic value are discussed. Lectures and laboratory emphasize detection, identification, nature of antigens and antibodies, and the antigen-antibody reactions encountered

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4225. Laboratory Management and Supervision.**

Lectures and discussions of general principles of management and supervision of the clinical laboratory and its personnel. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CLS 4318. Hematology II.**

In-depth study of theoretical and practical aspects of clinical hematology and hemostasis with emphasis on principles, methodology, problems encountered, and clinical applications

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4321. Directed Study in Clinical Laboratory Science.**

An indepth study of a narrow range of topics or a related problem in the clinical laboratory sciences. Topics to be announced; may be repeated for credit when topics vary

**3 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Credit/No Credit

**CLS 4333. Bridge to Clinical Practice.**

Study of professional and technical requirements for clinical laboratory science students and their role as part of the healthcare team. Students will demonstrate entry-level technical competency. The student's knowledge of all course material presented from the beginning of the CLS program through the spring semester will be evaluated. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**CLS 4340. Clinical Microbiology II.**

Study of medically important fungi, viruses, chlamydiae, rickettsiae, and advanced topics in clinical microbiology. Automated identification of microorganisms, database management, and epidemiologic techniques will be discussed

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4341. Molecular Diagnostics.**

This course consists of an introduction to the principles, methodologies and applications of molecular diagnostic procedures used in clinical laboratories. Emphasis is placed on the procedures used in the identification of infectious agents that cause human disease, in the diagnosis of inherited diseases, and the diagnosis of cancer

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4361. Research Methods in Clinical Laboratory Science.**

Directed independent research covering the principles of research and development of clinical laboratory methodology. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CLS 4364. CLS Clinical Practice II.**

This course offers a continuation of CLS Clinical Practice I which includes structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CLS 4370. Clinical Chemistry II.**

A study of the theoretical and practical aspects of clinical chemistry. Manual and automated laboratory procedures for quantitative analysis of various body fluids

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4440. Clinical Microbiology I.**

Study of pathogenic and nonpathogenic bacteria, fungi, and viruses with special emphasis on methods of isolation from body fluids, cultural and differential biochemical characteristics of body pathogens

**4 Credit Hours. 3 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CLS 4460. Immunohematology.**

Study of theoretical and practical consideration of major blood groups with emphasis on grouping and typing, antibody detection and identification, compatibility testing and component therapy in blood transfusion service

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**CLS 4463. CLS Clinical Practice I.**

Structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Communication Design (ARTC)

**ARTC 1301. Introduction to Communication Design.**

Introduces the field of Communication Design including terminology, creative visual thinking/problem solving, layout design, tools, and materials. Corequisite: ARTC 1302. Prerequisite: ARTF 1301, ARTF 1302 with grades "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 1302. Imaging I.**

An introduction to digital imaging emphasizing visual strategies, techniques, and concepts. Corequisite: ARTC 1301. Prerequisites: ARTF 1301, ARTF 1302 with grades "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 2000. Admission Portfolio Review.**

During this course, students will prepare and present an entry-level design portfolio. Communication Design majors must pass Admission Portfolio Review to gain entrance into the program. Course is repeatable one time. Prerequisites: ARTF 1301 and ARTF 1302 with grades of "C" or higher. Co-requisites: ARTC 1301 and ARTC 1302

**0 Credit Hours. 0 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 2303. Typography I.**

This course introduces the evolution and development of alphabets, letter forms, and typography in relationship to visual expression and communication. Corequisite: ARTC 2304. Prerequisites: Admission into the Communication Design Program. ARTC 1301 and ARTC 1302 with grades "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 2304. Conceptual Strategies.**

Focuses on concept development and ideation strategies through the production of various design forms. Corequisite: ARTC 2303. Prerequisites: Admission into the Communication Design Program. ARTC 1301 and ARTC 1302 with grades "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 2305. Visualization and Presentation Techniques.**

For Interior Design majors only. Introduces rendering techniques, three-dimensional graphics, and digital imaging for visual presentations. Prerequisites: FCS 1321; ARTF 1302; TECH 1413

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3301. Art Direction I.**

Students will develop advertising concepts that relate to the creative strategies, marketing platforms, and psychology specific to client-based communication, and the type of media used. Corequisites: ARTC 3303 and ARTC 3316. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3303. Trademark Design.**

Focuses on the design process and concept development of trademark design (i.e., logo design, corporate identity, iconographic systems).

The class emphasizes incorporating historic and contemporary methodologies and practices of trademark design within the context of the communication design discipline. Corequisites: ARTC 3301 and ARTC 3316. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3304. Branding Systems.**

Focuses on the creation and application of integrated brand communication systems. Students will develop comprehensive brand identities, typographic elements and layout designs for print and digital media. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3307. Interactive Media I.**

This course introduces Web Site design, construction, basic User Interface design, and explores the elements of HTML and CSS. Co-requisite: ARTC 3320. Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3310. Illustration.**

Introduces media and illustration methods for basic image development. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3313. Imaging II.**

This course uses advanced digital and traditional imaging as it applies to visual and verbal problem solving. The class emphasizes incorporating drawing, photography and appropriated images in order to reinforce and extend the possibilities of sourcing and manipulation of images digitally. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 3316. Communication Design History Seminar.**

This course traces communication design history, through examples of social, political, cultural, technological and economic perspectives, from the end of the 19th century to the present. Students examine how past and current design practices, theory and aesthetics inform and shape the discipline of communication design and contemporary society. Corequisites: This course is to be taken concurrently with ARTC 3301 and ARTC 3303. Prerequisites: ARTC 3307 and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 3320. Typography II.**

Introduces advanced issues in page structure and composition, content organization and management, typographic hierarchies, typeface selection, and typesetting. Corequisite: ARTC 3307. Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4000. Senior Exit Review.**

A course in which all graduating seniors must participate during their last academic year. Work will be examined and evaluated while displayed in the Exit Review. Corequisite: ARTC 4315. Prerequisites: ARTC 4308 and completion of 109 hours

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**ARTC 4200. Senior Show & Review.**

Students will be given the guidance and the studio time needed to polish their portfolios and to organize and produce the Communication Design Exit Review. Lectures will focus on best practices for professionals in communication design. Final portfolios will be evaluated while exhibited in the Exit Review. Prerequisite: ARTC 4308. Co-requisite: ARTC 4315. Communication Design majors must take ARTC 4200 and ARTC 4315 in their last semester prior to graduation

**2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 4302. Art Direction II.**

Students develop strategic messages across print, digital, and social media and evaluate how conceptual direction and message must shift to accommodate various media. Students strengthen their verbal and visual conceptual skills and elevate their research abilities to create dynamic advertising campaigns, and unify brand position with communication. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4303. Art Direction III.**

This course allows students to create art direction projects based on individual professional goals. Faculty will assess each portfolio at the beginning of the course. Students will then address their portfolio content and work to create a body of art direction pieces. Prerequisite: ARTC 4302

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4305. Typography III.**

Continues the study of letter form, typography, image and concept relationships for effective communication. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4306. Environmental Graphic Design.**

Introduces a multidiscipline-based design practice centered around exterior and interior built environments. Students examine the visual, theoretical and applied aspects of defining a place through wayfinding, identity and information design. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4308. Interactive Media II.**

This course explores advanced Web Site design, construction and User Interface design, advanced Web authoring for multiple platforms, and advanced Web typography. Prerequisites: ARTC 3301, ARTC 3303, ARTC 3307 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4309. Interactive Media III.**

Mobile application design. Exploration of User Interface design and Experience design for mobile devices. Students will learn to prototype applications that connect the physical and digital worlds. Prerequisite: ARTC 4308

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4310. Communication Design Practicum.**

Students are placed in regional graphic design firms and advertising agencies to gain professional design/art experience. May be repeated with different emphasis for additional credit. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316 and completion of 75 hours

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 4311. Digital Illustration.**

An illustration course using digital media to execute illustrations in a wide range of genres. Emphasis will be placed on developing unique approaches to manipulate traditional illustration techniques through digital means, as well as the creation of original digital illustration solutions. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4312. Editorial Illustration.**

The study of traditional and digital illustration techniques for editorial publication assignments. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4313. Communication Design Special Problems.**

An independent study requiring complex problem solving in Communication Design. Goals and objectives will be outlined in a written format. May be repeated with different emphasis for additional credit. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ARTC 4314A. Animation.**

The study and practice of various animation techniques. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314B. Legal Issues in Communication Design.**

This course introduces students to the business and legal issues relating to communication design. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314D. Digital Video.**

This course introduces issues in digital video production and editing.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314E. Motion Graphics.**

This course introduces issues and applications in the production of motion graphics and special effects for digital video. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314F. Character Development for Illustration.**

This course emphasizes basic skills of character/plot development and storytelling, action and background drawing and development of characters in unique styles. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314G. Illustration Techniques and Materials.**

A beginning illustration course focusing on learning to render with specific illustration techniques, including traditional black and white line and tone styles, watercolor and acrylic painting techniques and other materials such as collage, scratchboard and monoprint styles.

Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314H. Poster Design.**

Exploration and experimental usage of the written word integrated with visual imagery by using digital and traditional photographic, illustration, and other graphic elements utilized in poster design. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314I. Learning from the Land of Design.**

The intent of this course is to broaden the students' understanding of the rich culture of Italian design from the Renaissance to modern Italy. Additionally, the student will learn how intense observation of design principles through sketching, photography and keeping a journal, becomes a method for design inspiration and problem solving. Prerequisites: ARTC 2303 and ARTC 2304

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 4314J. Package Design.**

Students will explore designed packaged consumer goods while meeting industry and governmental requirements, principles, and guidelines, and sustainability in the context of the global marketplace. Prerequisites: ARTC 3301, ARTC 3303, and ARTC 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314K. Introduction to Hand Painted Signs and Lettering.**

This course explores the historic underpinnings, proven techniques, materials and iterative processes associated with hand painted signs and lettering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4314L. Guerilla Art Direction.**

This course examines guerilla advertising art direction strategies.

Students will develop non-traditional advertising concepts that promote social causes, consumer products, and public events. Guerilla creative strategy concepts will integrate various types of media including social and mobile interactions with the targeted audiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 4315. Senior Portfolio Presentation and Self-Promotion.**

This capstone course focuses on preparations for entry into professional practice via production of a final portfolio presentation, creation of a resume, business card, and self-promotions, and preparation for the interview process. This course is to be taken concurrently with Exit Review during the final semester before graduation. Prerequisites: ARTC 4308 and completion of 109 hours. Co-requisites: ARTC 4000 or ARTC 4200

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 4316. Book Design.**

This course will cover concept and content development, design, and execution of single edition and limited edition books through lectures, demonstrations, and studio work. Emphasis placed on creativity, problem solving, organizational ability, technical precision, and independent work ethic. Prerequisites: ARTC 3301, ARTC 3303 and ARTC 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5300. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. It will provide in-service training and evaluations of instructional philosophies, techniques and responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ARTC 5301. Communication Design Foundations.**

This course may be taken only to fulfill communication design background. Students will acquire knowledge and graphic design skills necessary for advanced studies. This course does not earn graduate degree credit. Prerequisites: Consent of the graduate advisor. Repeatable with different emphasis. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ARTC 5310. Art Direction.**

Advanced in-depth instruction involving conceptual principles, design, copy strategies, and branding methods in print, broadcast, and e-commerce advertising art direction and design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5313. Communication Design Advanced Problems.**

An independent study in communication design, which requires students to pursue complex design problems. Goals and objectives will be outlined in a written format. May be repeated with different emphasis for additional credit. Prerequisite: Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5320. Web Design.**

Students will research, create, and produce advanced online products for Internet. Emphasis is placed on information architecture, interface design, and navigation constructs in order to produce unique online communications. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5321. Digital Imaging.**

Exploration and experimental usage of digital black and white and color imagery utilizing non-traditional approaches to image making. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5322. Word and Image.**

Exploration and experimental usage of the written word integrated with visual forms by using digital and traditional photographic, illustrated, and graphic media. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5330. Typography.**

This course examines the traditional and experimental advanced usage of type and its relationship to the symbolic or communicative message. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5331. Corporate Identity Systems.**

Students explore complex corporate and institutional identity systems. Concept, design, program continuity, and branding in the marketplace will be emphasized. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5332. Corporate Marketing Materials.**

This course will explore advanced development of typographic elements, layout grid constructs, photo-imagery, and illustration for publication of corporate marketing materials. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5333. The Experimental Book.**

Students explore the experimental printed book including concept, design, and unique production such as unique binding methods. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5340. Contemporary Issues and Criticism.**

This course examines emerging issues in graphic design and design criticism, primarily from the turn of the 21st century to the present. Students will learn to analyze and critique graphic design, and will produce a work of critical writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5341. Modernism and Design.**

This course explores the modernist movement in design, as it emerged in Europe and America in the early twentieth century. Topics include: visual cultural theory, the origins of modernism, Dada, Constructivism, DeStijl, the Bauhaus, and American modernism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5342. Postmodernism and Typography.**

This course explores the relationship between form and content through the lens of graphic design and typography from the 1960s through 1990s, with a focus on postmodernism. Topics include: new wave and experimental typography, design authorship, appropriation, deconstruction, narrative structures, and new media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5343. Communication Design Seminar.**

This course examines communication design research methods, modes of practice, and models of the creative process. Students will engage in individual research inquiries, in order to develop the topic for their master's thesis in Communication Design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ARTC 5350. Special Problems in Communication Design.**

An independent study requiring complex problem-solving in communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5360C. Environmental Graphic Design Systems.**

This course will explore complex corporate, consumer, and institutional environmental systems. Concept, design, program continuity, and environmental graphic design systems (EGDS) in the marketplace will be emphasized. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360D. Typeface Design.**

This course explores the detailed anatomy of typefaces in order to design custom typefaces through various applications. Students with an advanced knowledge of typography will research detailed type anatomy as well as historical and cultural typographic constructs. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360E. Sustainable Packaging Design.**

Students will explore the role of sustainable package design in context to meeting the requirements of clients and consumers in the global marketplace. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360F. Communication Design Business Strategies.**

In this course, the student will be exposed to the principles of project, studio, marketing, and business development management as it relates to the business operations of a communication design studio. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360G. Interactive Design.**

This course explores the concept of interactivity in all its form, from the digital to the physical as it relates to communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360H. Mobile and Social Media.**

In this course, the student explores the implications of social networking and mobile communications in contemporary communication design. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360I. Editorial Design.**

This course develops typographic skills pertaining to page layout through the use of functional and aesthetic type and its application within the digital environment. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360J. International Perspective in Typography.**

This course studies the international perspectives of typography. This course requires a field trip abroad and will conclude with one extensive communication design assessment based upon the field trip experience. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360K. Data Visualization.**

This course explores methods of combining visual aesthetics with real data to create meaningful and at times complex visualizations. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360L. User Experience Design.**

This course explores advanced concepts in user-centered mobile applications, Web site, and operating system interface design. Students will solve design problems that take into account a holistic view of the user and how they interact with software. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360M. Design for Social Impact.**

This course will provide a platform to explore the ways that design processes can be applied in order to enable positive social change. The course reconsiders the role of the designer in the context of the social sector. Repeatable up to 3 times when the area(s) of emphasis change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ARTC 5360N. Alternative Printing Methods.**

This course will explore hands-on printing methods for designers. Letterpress, screen-printing and other alternative printing methods will be explored to visually express design concepts. Repeatable up to 3 times when the area(s) of study change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**ARTC 5360O. Kinetic Typography.**

Students will study the creation of moving typography as an extension of typography and animation. The history and development of typography and motion graphics in art will be examined. Students will engage in innovative development of kinetic typography using current digital technology combined with experimental techniques. Repeatable up to 3 times for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360P. International Design Student Synergy Project.**

Students will collaborate with students from the MFA program at the Jade Hochschule in Wilhelmshaven. This course requires a one-week stay in Wilhelmshaven, Germany. It will conclude with one extensive communication design project that showcases their research done abroad. Students will research German Design values while on location and discuss with German design students, while also presenting American design values. Restricted to students enrolled in the MFA Communication Design major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5360Q. Experience Design.**

Students will learn how the evolution of computing information has changed the role of technology and experience designers. Students will generate a variety of Web and Mobile applications using Artificial Intelligence as the core technology. Restricted to Communication Design MFA majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ARTC 5370. Professional Practice.**

Students are placed in regional and national advertising agencies, digital media studios, or graphic design firms to gain professional practice experience. Repeatable once for credit

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ARTC 5399A. Thesis.**

The course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in ARTC 5399B. Graded on a credit (CR), program (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ARTC 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Communication Disorders (CDIS)

**CDIS 1331. Introduction to Communication Disorders.**

Study of speech, hearing, and language development and its disorders; descriptions of communicative disorders and their etiologies for the speech-language pathologist, health professional, and classroom teacher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 3312. Neuroanatomy for Communication Disorders.**

This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language and hearing are the main focus of this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 3325. Anatomy and Physiology of the Speech Production System.**

Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 3459. Phonemics and Phonetics.**

Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CDIS 3462. Remediation of Articulatory and Phonological Disorders.**

This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. Prerequisites: CDIS 3325 and CDIS 3459. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CDIS 3469. Introduction to Hearing Science.**

Study of acoustics, auditory physiology and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem solving and weekly assignments

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CDIS 3475. Speech Science.**

Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. Prerequisites: CDIS 3325 and CDIS 3459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CDIS 4301. Advanced Independent Study.**

In-depth study of selected topics in Communication Disorders for the exceptionally motivated student. Work done on an independent basis with faculty member and only with prior departmental permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CDIS 4317. Service Delivery in Communication Disorders.**

Provides a foundation of clinical management to prepare CDIS students to work in a variety of settings. Emphasis will be placed on techniques of goal and objective sequencing, report writing, evaluation of services, ethics, and interdisciplinary collaboration. Prerequisites: CDIS 3459, CDIS 3462, CDIS 4330, CDIS 4466 or CDIS 4350 . (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CDIS 4330. Speech and Language Development.**

Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycho-linguistics, psychology, and communication are examined for children in various stages of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 4340. Augmentative Communication Systems.**

Designed to review methods of non-oral communication as applied to hospital, rehabilitation, and school settings. Use of electronic communication systems emphasized. Prerequisites or co-requisites: CDIS 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 4344. Clinical Practicum in Communication Disorders.**

Supervised clinical practicum in speech-language pathology. Must be taken each semester student participates in any supervised clinical practicum in speech-language pathology. Prerequisites: CDIS 1331, CDIS 3459, CDIS 3462 or CDIS 4466, and CDIS 4330. (Concurrent registration in CDIS 4330 acceptable)

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Credit/No Credit

**CDIS 4350. Survey of Neurogenic Communication Disorders.**

This course provides an introduction to acquired speech, language, cognitive and swallowing disorders resulting from brain injury. Basic neuroanatomy and physiology are reviewed, followed by discussion of the etiology, diagnosis, treatment, and prognosis of these disorders. Emphasis is placed on aphasia, dysarthria, apraxia of speech, right hemisphere syndrome, traumatic brain injury, dementia, and dysphagia. Prerequisite: CDIS 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 4370. Aural Rehabilitation.**

Principles and procedures in the habilitation and rehabilitation of hearing impaired children and adults. Prerequisites: CDIS 4420. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CDIS 4420. Introduction to Audiology.**

Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal and pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of audiology and provision of audiological service to special populations. Prerequisite: CDIS 3469

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CDIS 4466. Clinical Management of Language Disorders.**

Study of principles and procedures for the identification, description, assessment and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples will be emphasized. Prerequisite: CDIS 4330

**4 Credit Hours. 4 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**CDIS 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5301. Advanced Independent Study in Communication Disorders.**

Discussions of various areas of speech language pathology. Attention to individual needs of the student. Emphasis on independent study in habilitation and rehabilitation of communication disorders. This course is repeatable for credit and can be taught by different faculty covering different topics. Prerequisite: Faculty permission required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5312. Neuroanatomy for Communication Disorders.**

This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language, and hearing are the main focus of this course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5321. Clinical Practicum in Audiology.**

Supervised clinical practicum in audiology. Focus is on both diagnostic and rehabilitative audiological management of diverse populations. Must be taken every semester that a student participates in supervised audiology practicum. May be repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis. Prerequisites: CDIS 4420 and CDIS 4370 or equivalents; instructor approval

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

**CDIS 5325. Anatomy and Physiology of the Speech Production System.**

Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5330. Speech and Language Development.**

Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycholinguistics, psychology, and communication are examined for children in various stages of development. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5331. Stuttering Therapy.**

Description of therapeutic intervention with children and adults who stutter. Techniques of assessment, management, and counseling are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5333. Language Disorders in School-Age and Adolescence.**

This introductory-level course will review assessment and intervention for language disorders in the school-age and adolescent population. The relationship between language and literacy will be discussed. Students will engage in detailed narrative analyses. Evidence-based practice and collaborative models of intervention will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5334. Articulation and Phonological Disorders: Assessment and Intervention.**

Study of normal, delayed, and disordered child phonology in English and select dialects/languages. Course covers etiologies, characteristics, and anatomic/physiologic bases of delays/disorders, as well as their potential impact on phonological awareness and subsequent development in reading/writing. Prevention, assessment, and treatment of disorders will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5335. Bilingual Phonology and Phonological Disorders.**

Typical development of Spanish-English bilingual/bidialectal children's articulation and phonology will be discussed. Assessment and intervention of articulation and phonology with bilingual/bidialectal children will also be addressed. The information and theoretical foundations serve as a guide for students to critically evaluate and clinically apply research in bilingual populations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5336. Neuromotor Disorders of Speech: Description and Rehabilitation.**

The course reviews the neuroanatomic mechanisms underlying speech production and surveys the etiology, symptomatology, epidemiology, course, and prognosis of speech disorders resulting from impairment of the central and/or peripheral nervous system. Emphasis is placed on apraxia and the dysarthrias. Clinical application in assessment and rehabilitation of patients with neurogenically-based motor speech deficits is stressed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5337. Vocal Rehabilitation.**

Assessment of vocal function and disorders; rehabilitation of the patient with vocal abnormalities due to vocal abuse, psychological, and/or organic etiologies, including laryngectomy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5339. Dysphagia.**

A review of anatomic and physiologic disturbances of swallowing in neurologically impaired and post-surgical head and neck cancer patients will be presented. Instrumentation, techniques of evaluation, and radiograph examination of deglutition will be reviewed. Rehabilitation procedures will be described in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5340. Cognitive Rehabilitation in Traumatic Brain Injury.**

This introductory-level course will review neuropathology and neurophysiology of traumatic brain injury and dementia, introduce relevant terms and models in cognitive rehabilitation, provide a framework for assessment and treatment, and discuss the functional impact of cognitive-communicative disorders on the patient and others. Prerequisites: CDIS 5336, CDIS 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5342. Aphasia and Related Disorders.**

The course develops an understanding of the etiology, symptomatology, assessment, remediation, and recovery patterns of acquired communication disorders that result from impairment of the central nervous system, with a focus on the aphasias and traumatic brain injuries. Coexisting problems caused by damage to cortical/sub-cortical structures will also be addressed. Recent advances in relevant clinical research and technology will be surveyed. Prerequisite: CDIS 3312 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5344. Advanced Clinical Practicum.**

Clinical practicum for graduate students focusing on assessment and remediation of communication disorders in children and adults. Required each semester enrolled. Repeated for credit but not counted toward graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required

**Grade Mode:** Leveling/Assistantships

**CDIS 5350. Multicultural Issues in Communication Disorders.**

Addresses the social, cultural, and linguistic factors that impact the clinical service delivery provided to culturally and linguistically diverse populations. A primary focus of the course will be to address general principles of assessment and intervention as they relate to the clinical management of individuals with communication disorders from diverse cultural and language backgrounds. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CDIS 5362. Introduction to Research in Communicative Disorders.**

Designed to acquaint the student with research protocol in behavior science, with an emphasis in speech-language pathology. Topics include research design, data analysis, manuscript preparation, and obtaining external funding. Emphasis on critical analysis of professional literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5363. Language Disorders in the Birth-to-5 Population.**

This introductory-level course will review assessment and intervention for language disorders in the birth-to-5 population. Use of assessment information to determine language disorders versus language difference will be addressed. Students will engage in detailed language sample analyses. Creating effective intervention plans using assessment data will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5370. Aural Rehabilitation.**

Principles and procedures in the habilitation and rehabilitation of hearing-impaired children and adults. This course does not earn graduate degree credit. Prerequisite: CDIS 5420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5380. Communication and Aging.**

The influx of senior citizens in our population will require preparation for the increased incidence of communication problems due to normal and pathological aging processes. This course will address how aging affects communication, how communication disorders manifest in the aging population, and implications for professionals working with older adults. This course is restricted to non-CDIS major graduate students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5390. Seminar in Communication Disorders.**

Examination of current theoretical and clinical issues in Communication Disorders. Issues may include family management in communication disorders, language and literacy, issues in health care rehabilitation, instrumentation and entrepreneurship. May be repeated for credit.

Prerequisite: Graduate standing and permission of instructor and graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CDIS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Communication Disorders 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5420. Introduction to Audiology.**

Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal, pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of Audiology and provision of audiological service to special populations. This course does not earn graduate degree credit. Prerequisite: CDIS 5469

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5459. Phonemics and Phonetics.**

Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships



**CDIS 5462. MP Remediation of Articulatory and Phonological Disorders.**

This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5466. Clinical Management of Language Disorders.**

Study of principles and procedures for the identification, description, assessment, and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples are emphasized. This course does not earn graduate degree credit. Prerequisite: CDIS 5330

**4 Credit Hours. 4 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5469. Introduction to Hearing Science.**

Study of acoustics, auditory physiology, and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing, and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem-solving, and weekly assignments. This course does not earn graduate degree credit

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5475. Speech Science.**

Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. This course does not earn graduate degree credit. Prerequisites: CDIS 5325 and CDIS 5459

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**CDIS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CDIS 5689. Internship in Communication Disorders.**

Laboratory and clinical practicum at selected therapeutic sites used to provide additional breadth to therapeutic experiences. Dependent on approval of faculty advisor. Repeated for credit. Graded on a credit (CR), no-credit (F) basis. This course does not earn graduate degree credit

**6 Credit Hours. 1 Lecture Contact Hour. 30 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CDIS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Communication Studies (COMM)

**COMM 1310. Fundamentals of Human Communication.**

This course examines the speaking and listening principles and techniques that are fundamental for every aspect of human communication. The course develops basic verbal and nonverbal communication skills and knowledge in three specific contexts: interpersonal, small group, and public speaking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Lab Required|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1311

**COMM 1340. Voice and Articulation.**

This course is a study of the physiology of the human voice and the sounds of speech. The student's own voice will be the primary focus, with practice to develop speech appropriate for professional contexts. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1342

**COMM 2111. Speech and Drama Activities.**

A course designed to provide credit for participation in communication studies and theatre activities. May be repeated for a total four credits in communication studies and four credits in theatre. May be repeated with different emphasis for additional credit

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1144

**COMM 2315. Interpersonal Communication.**

This course studies communication principles and theories exploring interpersonal interactions with emphasis on conceptual foundations, personal growth and skill enhancement. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1318

**COMM 2326. Interpretive Reading.**

A study of the techniques of the oral interpretation of literature with an emphasis on performance. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 2341



**COMM 2330. Small Group Communication.**

This course focuses on communication in small groups and teams including an analysis of the structure and skills involved in managing the task and relational components of group work. Special emphasis is placed on problem solving discussion, effective meeting leadership and participation, and critical thinking. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 2333

**COMM 2338. Public Speaking.**

This course helps the student to develop personal speaking skills and introduces principles of contemporary types of speeches. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SPCH 1315

**COMM 3301. Empirical Research Methods.**

This course explores how to conduct and interpret communication research through the scientific method. Prerequisite: 6 hours COMM

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3302. Rhetorical Research Methods.**

Students will explore and apply methods of analysis and evaluation of rhetorical discourse with emphasis on developing critical research and writing skills. Students should complete COMM 3302 before enrolling in other advanced rhetorical studies courses. Prerequisite: COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3310. Communication Theory.**

This course explores the practical ways in which communication theory operates to foster self-awareness, to make sense of personal experiences, and to cultivate critical thinking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3318J. Communication in Health Organizations.**

This course examines the delivery and exchange of messages within health organizations. Specific communication contexts to be emphasized will include interpersonal conflict, negotiating, communication networks, communication environments, virtual systems of communication, channel/media selection strategies, communication climate, communities of practice, public relations communication campaigns, and organizational crisis management. Prerequisite: COMM 2315 or COMM 2330 or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318K. Diversity and Communication.**

This course will examine various styles of formal and informal communication and how to build awareness and understanding of diversity. It will address diversity issues stemming from similarities and differences in social characteristics such as age, gender, race, and sexual orientation. It will address how society communicates about issues related to diversity. Prerequisites: COMM 2315 or COMM 2330 or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318M. Intercultural Communication in the Americas.**

This course explores principles and practices of intercultural communication with specific applications to North and South America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318O. Environmental Communication: Sustainability, Rhetoric, Criticism and Advocacy.**

The analysis of environmental communication contributes much to our knowledge about public discourse and the symbolic processes of influence in formal oratory, public debate, political communication, organizational communication, and mass media. This course will challenge you, but the rewards will be worth the effort - you will see and hear the public messages around you in a whole new way

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318Q. The Dark Side of Communication.**

The Dark Side of Communication will examine aversive and problematic interactions in the interpersonal, organizational, and instructional settings. Sample topics include hurtful messages, stalking, aggression, jealousy, fatal attraction, and conflict. Students will take a research-based approach to understanding these undesirable, yet very common, communicative messages. Restricted to sophomore or higher classification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318R. Instructional Communication Practicum.**

This course will provide students with an overview of instructional communication research including teacher immediacy and clarity, and student responsiveness and engagement. Students will also work with a faculty supervisor as an instructional aide in which they will facilitate experiential activities and learn to assess lower division assignments.

Permission of supervising instructor is required prior to registration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3318S. Social Media in Organizations.**

Social Media in Organizations prepares students to be effective social media writers, resourceful workers, critical consumers, and savvy job seekers. We will consider members' use of social media inside organizations as well as explore our peripheral connection with organizations as consumers and prospective employees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3318T. Sports Communication.**

Sports Communication provides a theoretical foundation to understand and apply interpersonal, organizational, team, and public communication skills in sports settings. Sample topics include: fan culture, racial identity and gender, player/coach interactions, and crisis communication. Students gain practical knowledge and skills to optimize verbal and nonverbal messages in sports contexts. Prerequisite: COMM 1310. Sophomore standing required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**COMM 3319. Introduction to Organizational Communication.**

Examines contemporary research about the influence of communication on the organization. Prepares the student to understand and manage communication processes in organizations. Prerequisites: COMM 2315 or COMM 2330; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3325. Communication and Conflict Management.**

Demonstrates the ways communication skills can be used to manage conflict. The class also provides an analytic framework for diagnosing conflict, negotiation, and mediation. Prerequisites: COMM 2315 or 2330 or permission of instructor; Full major or minor status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3326. Family Communication.**

A study of the theory and research exploring the family communication process in a variety of family types. Prerequisites: COMM 2315; Full major or minor status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3328. Communication and Gender.**

Investigates the interactive nature of communication and gender, the creation of gender identities, and the role of gender and communication in a variety of settings. Prerequisites: COMM 2315; Full major or minor status. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**COMM 3329. Intercultural Communication.**

Presents theory and application of communication skills for a culturally diverse world. Develops verbal and nonverbal abilities in social and professional intercultural contexts. Prerequisites: COMM 2315, COMM 2330, or COMM 2338; Full major or minor status. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 3330. Nonverbal Communication.**

Introduces the conceptual foundations of nonverbal communication. Theoretical components, research methods and applications of nonverbal communication are also explored in a variety of contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3345. Argumentation and Debate.**

A study of basic principles of argumentation emphasizing analysis, evidence, reasoning, and refutation and their applications in formal and informal debate contexts. Students will do laboratory work with the University forensics squad. Prerequisite: COMM 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 3358. Professional Communication.**

Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including job selection, resume preparation and presentation, interviewing, and interaction management in business and professional settings.

Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4111. Practicum in Communication Studies.**

On-the-job experience working with faculty to assist with the department missions of teaching, research or service. Students may work in the department communication lab, assist faculty in the classroom, serve as faculty research assistants or other academic support tasks. May be repeated one time for additional credit. Prerequisites: Senior class standing and permission of department chair; Full major or minor status

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COMM 4307. Media Criticism.**

Explores the influence of media messages based upon communication and rhetorical theories in shaping perceptions and values. Focus is upon the rhetorical analysis of how the visual media of film and television communicate social, political, and personal attitudes and behaviors.

Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4310. Methods of Teaching Communication Studies.**

A study of methods of teaching communication studies principles and skills for secondary school teachers. Students enrolled in teacher certification programs with a major in Nutrition, Consumer Affairs, Communication Studies or a second teaching field in Communication Studies should contact the Department of Communication Studies for approval to register. Prerequisites: COMM 1310, COMM 2338, COMM 2315, or COMM 2330 with minimum grade of "C". (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**COMM 4315. Directed Research in Communication Studies.**

Individual or group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the departmental chair prior to registration. May be repeated with different emphasis for additional credit. Prerequisites: Permission of instructor; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**COMM 4320. Planning Communication Studies Activities and Events.**

This course is designed to assist individuals in the management and implementation of communication activities and events. The course includes practical experience in planning and directing individual events

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COMM 4321. American Speeches.**

Analysis and evaluation of major American speeches and their influence on the history and culture of the United States from 1630 to the present.

Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4322. Rhetoric of Protest Movements.**

Explores the persuasive strategies used by protest and political movements to promote social and political change. Focuses upon the application of critical perspectives in understanding the stages, leadership styles, and rhetorical appeals characteristics of movements in American society. Prerequisites: COMM 2338; Full major or minor status. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 4324. Organizational Rhetoric.**

Guided by principles of rhetoric, students will investigate a variety of functions for internal and external audiences. Functions will include building identity; managing issues, impressions, and crisis; and influencing organizational culture. Students will use this knowledge to create and analyze organizational messages. Prerequisite: COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4325. Communication and Technology.**

This course explores how the use of information and communication technologies relates to interpersonal, organizational, public, political, and intercultural communication practices and outcomes. Prerequisite:

COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4326. Health Communication.**

This course provides students with an overview of major theoretical and practical issues for communicating about health issues in clinical, organizational, relational, and public contexts. Students will gain knowledge and skills to improve patient health outcomes through effective message strategies. Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4329. Communication Training and Human Resource Development.**

This course presents the principles and skills of developing and presenting communication training programs. An emphasis is placed upon applications of communication skill development, communication theory, and instructional communication research in organizational contexts. Prerequisite: COMM 2315, COMM 2330, or COMM 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4331. Persuasion.**

An investigation of rhetorical and behavioral theories of persuasion, the devising of persuasive campaigns, as well as the consumption and generation of persuasive messages in a variety of communication settings. Applicable for careers in business, law, and human relations.

Prerequisites: COMM 2315 or COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4338. Advanced Public Speaking.**

In-depth critical analysis of speech construction and the development of presentation skills. Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4345. Political Communication.**

A study of historical and contemporary political campaigns in the United States analyzing management strategies, promotional techniques, and rhetorical messages. Prerequisites: COMM 2338; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4347. Leadership and Communication.**

An advanced course in communication designed to examine in detail the phenomenon of leadership in groups and organizations. Various theories and approaches to leadership will be surveyed with an emphasis on applying leadership principles. Prerequisites: COMM 2330; Full major or minor status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4351. Relational Communication.**

This course is a study of communication in close relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 4390. Communication Internship.**

This course provides on the job experience in a communication related role in an approved organization. Enrollment requires permission of the instructor, a minimum of 150 clock hours on the job, a written contract with the internship coordinator, and a final portfolio of work. May be repeated for additional credit. Prerequisites: 6 hours of upper level communication electives completed with a grade of "C" or higher. Restricted to full majors or minors in their junior or senior year. Good academic standing required

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COMM 5100. Teaching Communication Studies.**

An introduction to curriculum, instruction, and assessment methods in the teaching of Communication Studies. Provides an orientation as well as regular in-service training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), nocredit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**COMM 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5301. Empirical Methods in Communication Research.**

An examination of empirical research methods in speech communication. Measurement procedures, statistics, experimental design, and descriptive research methods will be investigated as well as a consideration of scholarly writing and library research. Required of communication studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5302. Rhetorical Methods.**

A study of approaches to the analysis of public discourse directed toward establishing workable perspectives for students conducting rhetorical analysis. Required of communication studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5310. Methods of Teaching Communication Studies.**

A study of the methods of the teaching speech communication principles and skills for secondary school teachers. Prerequisite: Admission to teacher certification program or permission of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5312. Intercultural Communication.**

This course is based on an understanding that culture is maintained through systems of meaning, and that communication is the sharing of meaning between people. We will explore the many ways in which language, culture, and communication interact with, influence, and manifest in each other in our everyday lives. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5313. Relational Communication.**

This course provides a comprehensive overview of relational communication theories and research. Students engage with theory and research frameworks to think critically about relational communication perspectives and contributions, understand the strengths and limitations of those perspectives, and learn to contribute to new knowledge of relational communication. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5314. Family Communication.**

This course explores the communication processes associated with families. Topic areas for exploration will include: storytelling, intimacy, conflict, rituals, religion, health-illness, and death. The goal is to further understand interdisciplinary research and theory related to family interactions embedded in larger webs of social, cultural, and generational relationships. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5315. Directed Research in Communication Studies.**

A course to be offered to certain graduate students to allow for independent study in a specific area for which a regular course is not available. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**COMM 5318. Seminar in Interpersonal Communication.**

A review of current research in the area. Includes an examination of contemporary theories and research methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5319. Organizational Communication.**

Examines organizational communication theory and research in applied organizational contexts. Provides communication professionals with an analytical framework for improving communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5320. Directing Communication Studies and Theatre Activities.**

Designed to assist any teacher, whether of speech and drama or some other subject, in directing speech and drama activities. During the course, those in the class will actually direct debate, plays, declamation, and other activities. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5321. Communication Assessment.**

An in-depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5324. Seminar in Instructional Communication.**

Examines communication instruction theory and research and their practical applications in various instructional settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5325. Seminar in Human Communication Theory.**

An examination of theories of human communication contexts including interpersonal, family, intercultural, organizational, and instructional communication. May be repeated with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**COMM 5327. Contemporary Rhetorical Theory.**

A survey of the major contemporary theoretical perspectives and conceptual debates in rhetoric. Focuses upon critical interpretations and applications of theory in addition to study of primary theorists' writings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5329B. Communication and Negotiation.**

Examines theory, research, and practice of conflict management and negotiation. Prerequisite: COMM 5319 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5329D. Managing Communication Technologies in the Workplace.**

Examines how communication technologies both help and hinder workplace communication. Examines theory, practical applications, key scholars and empirical research. Heavy focus on using case studies that provide context for learning how to thrive in the contemporary organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5329E. Communication and Organizational Culture.**

A seminar about communication and organizational culture. Discussion and materials explore communication practices that enable people to identify themselves as members of an organization and bind themselves to each other. Students will have the opportunity to analyze an organization. Prerequisite: COMM 5319 or consent of instructor is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 5330. Seminar in Nonverbal Communication.**

A review of current theory and research of nonverbal communication behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5331. Seminar in Persuasive Communication.**

An analysis of behavioral theories of persuasion. Emphasis placed on understanding established theories of attitude formation and change, contemporary persuasion, research, and the application of persuasion theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5332. Seminar in Communication and Technology.**

Focuses on research and theories about the relationships between technology and communication behavior in interpersonal group, and organization contexts. Also considers relationships between communication, technology, and culture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5333. Health Communication.**

This course provides an overview of health communication theory and research to explore how interpersonal, organization, and cultural messages shape our views of illness and the health care system.

Topics will include health literacy, health risk messages, e-health, health disparities, and physician-patient interactions. Students must receive permission to enroll from the Department of Communication Studies Graduate Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5342. Historical Rhetoric and Social Influence.**

The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in history. Includes emphasis on the following topics: American Public Address, Rhetoric of Woman's Suffrage, and other historic topics of interest. May be repeated with different emphasis or topic for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5343. Contemporary Rhetoric and Social Influence.**

The analytical study of speeches, speakers, groups, movements, and rhetorical strategies in contemporary society. Includes emphasis on the following topics: rhetoric and culture, rhetorical movements, and rhetorical genres. May be repeated with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5344. American Speeches.**

This course is a survey of American public address. The class will study significant and representative speeches from different periods of American history. This class will examine what the study of American public address can teach us about history, communication, and social influence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5345. Seminar in Political Communication.**

Study of political communication in contemporary times. Course will cover the rhetoric of candidates and politicians, the structure of political campaigns, and campaign practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5347. Seminar in Small Group Communication.**

An examination of theories and research evidence about communication in the small group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5350. Applied Communication Studies.**

An application of communication principles and skills. Topics covered may include organizational, interpersonal, nonverbal and group communication, conflict management, communication technology, and persuasion analysis. May not be taken for credit by students pursuing M.A. degree in Communication. May be repeated for additional credit with department approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**COMM 5355. Media Criticism.**

A rhetorical analysis of media from a Contemporary Cultural Studies perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5356. Gender and Communication.**

An examination of research and theories about gender communication, relationships, and qualitative research methods. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COMM 5360. Introduction to Empirical Research in Communication.**

Introduction to Communication Studies as a behavioral science. Students will learn principles of the scientific method; explore quantitative and qualitative methods; investigate variables across the field (persuasion, interpersonal, organizational, non-verbal, intercultural, and instructional); and analyze and apply research in Communication. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**COMM 5362A. Organizational Communication.**

Introduction to communication concepts in the context of organizations. Students will learn how communication influences contemporary organizations through familiarity with contemporary research. Students will be prepared to understand, investigate, and manage communication processes in organizations. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**COMM 5362B. Organizational Rhetoric.**

Introduction to the study of organizational rhetoric designed for internal and external audiences. Students will analyze and create messages based in theories of organizational rhetoric. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**COMM 5363. Introduction to Rhetorical Research in Communication.**

Introduction to the rhetorical tradition in Communication, with a focus on methods of analysis of discourse. Students will learn the significance of rhetorical analysis; explore a variety of critical methodologies; perform an analysis of discourse; and report findings in writing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**COMM 5371. Communication Training and Development.**

This course examines the theory and practice of developing and presenting communication training sessions for organizations.

Prerequisite: COMM 5319 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5372. Organizational Communication Analysis and Development.**

Examines communication problems in organizations and describes effective interventions. Provides communication managers and consultants with a broad range of tools and procedures for diagnosing and changing communication. Prerequisite: COMM 5319, undergraduate organizational communication course, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5374. Seminar in Organizational Rhetoric.**

This seminar will include an examination of how organizations use symbols to accomplish a variety of functions for internal and external audiences, as well as exploring the concept of organization as rhetorical argument

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5390. Communication Internship.**

Students acquire on-the-job experience in a position with an off-campus organization using skills and knowledge acquired through graduate coursework; requires written reports and other projects as specified by the supervising instructor. Graded on a credit (CR), no credit (F) basis.

Prerequisite: Permission of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5395. Capstone Research Project.**

Under the direction of a graduate faculty member, students develop and submit a research or applied project using knowledge and skills acquired through graduate coursework. Required for students not pursuing the thesis path. May be taken only once for degree credit. Prerequisite:

Permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Communication Studies 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COMM 7315. Directed Research in Communication Studies.**

Independent study of a specific communication research area. May be repeated with different emphasis for additional credit. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COMM 7325A. Instructional Communication.**

A review of instructional communication theory and research with an emphasis on the function of communication in instructional settings.

Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325B. Organizational Communication.**

A review of organizational communication theory and research with an emphasis on organizational development from a communication perspective. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**COMM 7325C. Communication Assessment.**

An in depth study of communication assessment techniques employed in the field of oral communication. Statistical, experimental, and observational methods of assessing oral communication in interpersonal, group, and classroom settings are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Computer Information Systems (CIS)

**CIS 1323. Introduction to Microcomputer Applications.**

This course develops advanced information technology skills, focusing on office productivity software. Primary emphasis is placed on spreadsheet, database, and presentation software. Advanced techniques are presented for use in data analysis and decision-making. Students will be expected to demonstrate mastery of these techniques in a hands-on environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 1301

**CIS 2324. Visual Programming I.**

An introduction to application program development to include requirement analysis, design, implementation, and testing. A blend of structured and object-oriented concepts is used to form solutions to business problems using a visual programming language. Prerequisite: CIS 1323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BCIS 2316

**CIS 3317. E-Business.**

Explores the constantly changing world of e-Business from an international perspective. This course will emphasize e-Business challenges and opportunities in the worldwide marketplace, while focusing on global issues of management, implementation, and integration of IT resources. Does not count for CIS advanced elective credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3325. Visual Programming II.**

An advanced visual programming course covering topics related to the design and implementation of user interface, business logic and data access in a tiered architecture. The emphasis is on techniques that take advantage of a development framework through the use of forms, classes, and objects. Prerequisite: CIS 2324

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3350. Information Security Assurance: Principles and Practices.**

This course examines the concepts of information systems and network availability, integrity, and confidentiality in order to develop effective security controls, processes, practices, and procedures. Topics include methodologies, models, architectures, access control systems, ethics, and legal implications of IT security. Prerequisites: Overall GPA 2.0 required. Restricted to Juniors or Seniors in BBA or CJ majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3360. e-Business Applications Design and Development.**

The course focuses on designing effective e-business applications to support the e-business strategy of a company. It covers e-business models, business solution delivery strategy, web required architectures, and development and deployment of dynamic, multi-tiered, transaction-oriented, e-business applications in a business-to-business environment. Prerequisite: CIS 3325 and ACC 2362

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3374. System Analysis and Design.**

The analysis and general design phases of the system development life cycle are reviewed. Emphasis on techniques and tools for determining systems requirements that lead to the development of logical design models using structured and object-oriented methodologies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CIS 3375. Enterprise Computing Skills using COBOL.**

Basic features of the COBOL language. Emphasis is on structured program development and file processing. Topics include file processing, sort feature, and subprograms. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3380. Enterprise Information Technology and Business Intelligence.**

Students will extend their ability to effectively use integrated software applications to identify and provide access to various information sources. The course will focus on applying information and Internet Technologies that span normal business functions for the development and implementation of solutions to managerial problems. Prerequisites: CIS 1323, MATH 1329 or equivalent, and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3382. Computer Data Base Systems.**

Concepts and methodology of planning, design, development, and management of the computerized data base. The emphasis is on logical database design and a study of relational implementation. A relational DBMS with a relational query language is used for the development of a business application system. Prerequisites: CIS 3374 and completion of or concurrent enrollment in CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3389. Business Application Programming III.**

This course will continue the study of business-oriented software development using an object-oriented programming language. Topics covered will include client/server object relationships, inheritance, polymorphism, encapsulation, inner classes, threads, GUI design, and the use of event models. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 3390. Project Management for Business Professionals.**

An introduction to project management body of knowledge as applied to Information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Program management, system methodologies, material procurement, human, and international issues will be examined from the perspective of their impact on functional disciplines in the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4318. Enterprise System Development and Application Security.**

Advanced use of information technology in the design and implementation of business applications to support electronic commerce. Concepts, methodology, and toolsets for designing, implementing, and management of applications in Business-to-Business paradigm. Prerequisites: CIS 3382 and CIS 3325 or CIS 3389

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4319. Mobile Application Development for Windows.**

This course introduces the concepts, methodology, and toolset for designing business applications. Students will learn the MVC development framework and .Net programming environment for Windows to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4320. Mobile Application Development for Apple-iOS.**

This course introduces the concepts, methodologies, and toolset for designing business applications for mobile devices such as iPhone and iPad. Students will learn the MVC development framework and Objective-C programming environment for Apple-iOS to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4321. Mobile Application Development for Android.**

This course introduces the concepts, methodology, and toolset for designing business applications for mobile devices. Students will learn the MVC development framework and Java programming environment for Android to create interactive business applications. Prerequisite: CIS 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4322. Computer System Development and Design.**

A course that integrates systems development with analysis, design, project management, and the systems development life cycle. Object-oriented methods and UML models will be used to develop a project for a client. Students will select methodology, platform, and development technology based on client requirements. Prerequisites: CIS 3325 and CIS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4332. Enterprise Resource Planning Systems.**

The use of advanced information technology for integrating business functions in an enterprise through distributed databases is emphasized. Methodology and tools for the selection and implementation of Enterprise Resource Planning (ERP) systems are discussed. Students will use available ERP software to create, track and communicate enterprise information. Prerequisite: CIS 3380

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4348. Fundamentals of Data Communications.**

A course oriented to the technical concepts of data communications and network designs and how they relate to contemporary computer end-user environments. It incorporates the systems approach for understanding, designing, managing, securing, and implementing data communication networks. Students will analyze and design data communication networks for various business situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4349. Advanced Database Management Systems.**

This course introduces advanced concepts and database processes to support applications for Business Intelligence. Multi-dimensional modeling along with database, reporting, and analysis capabilities of a modern database environment will be used to design and develop stored procedures, views, user-defined functions, reports and multi-dimensional information cubes. Prerequisite: CIS 3382. Co-requisite: QMST 3339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4350. Information Systems Security.**

This course focuses on the technology and managerial issues related to information systems security. Topics include: Attack methods, access control, authentication, firewalls, incident and disaster response, disaster recovery, security function management, and cryptography. Prerequisite: CIS 4348

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4358. Network Administration.**

This course provides students with an understanding of the responsibilities assigned to network administrators. Students will acquire a working knowledge of these responsibilities and skills using tools and technologies for administering enterprise networks via network operating systems commonly used in modern business enterprises. Prerequisite: CIS 4348

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4360. Developing Business Solutions for the Enterprise.**

An introduction to the concepts, methodology, and toolsets for the architecture, design, implementation, and deployment of business solutions for the enterprise in a services-oriented computing environment. Topics include services-oriented architecture, "Software as a Service" framework, n-tier development of business and data services, and application security. Prerequisites: CIS 3325 and CIS 3382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 4395. Independent Study in Computer Information Systems.**

An in-depth study of a single topic or related problem solved through computer information systems research. May be repeated once for credit with a different emphasis. Prerequisite: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CIS 4399. Computer Information Systems Internship.**

This one-semester course involves an internship in business information systems. Emphasis is on the application of computer information systems theory to business problems in the area of computer based management information systems. Prerequisite: Specified by employer with consent of instructor and department chair

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CIS 5318. Information Technology in the Digital Economy.**

Provides an understanding of the issues involved in the strategic management of the information assets of organizations. Examines the issues and challenges that users face within the Information Technology (IT) management arena as part of a firm's business and IT strategy. Focus is on managerial rather than technical issues. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5354. Decision Support Models in Management.**

This course is designed to give students the skills to design, implement, analyze, and present the results of an executive decision model.

Students will gain hands-on experience both by preparing applications-oriented projects/cases and also by designing selected parts of DSS using Graphical User Interface (GUI) tools. Prerequisites: A strong working knowledge of personal computers and the Windows operating environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5355. Database Management Systems.**

Explores the concepts, principles, issues and techniques for managing corporate data resources using database management systems. The course includes techniques for analysis, design and development of database systems, creating and using logical data models, database query languages, and procedures for evaluating database management software. Students will use a relational database management system to develop a management information system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5356. Business Telecommunications.**

Explores the technology that is revolutionizing the manner in which business and government conduct their operations and the effects new developments in communication media have on computing systems.

This course reflects the current state-of-the-art in data communication networking

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5358. IT Systems Project Management.**

An in-depth study of the project management body of knowledge as applied to information Technology with emphasis on the management of scope, costs, schedules, quality and risks. Includes program management, system methodologies, material procurement, and human, cultural, and international issues and their impact on the organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5360. E-Commerce: Strategies, Technologies, and Applications.**

This course is designed to familiarize students with current and emerging e-commerce technologies. Topics include Internet technology for business advantage, reinventing the future of business through e-commerce, business opportunities in e-commerce, and social, political, global, and ethical issues associated with ecommerce

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5364. Data Warehousing and Mining.**

Familiarizes students with current and emerging data warehousing and mining technologies that are likely to play a strategic role in business organizations. Topics include data mining techniques, data warehouse development life cycle, data warehouse navigation, data quality, and performance issues. Prerequisites: QMST 5334, QMST 2333 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CIS 5368. Information Security.**

This course covers the analysis, design, development, implementation, and maintenance of information security systems. Topics include legal, ethical, professional, personnel issues; risk management; technology; cryptography; and physical security

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5370. Enterprise Resource Planning.**

The use of information technology in integrating enterprises for operational control and strategic business intelligence is examined via Enterprise Resource Planning (ERP) applications in customer relationships management, accounting, finance, purchasing, production control, sales, marketing, and human resource management. Emphasizes managerial issues surrounding the need, selection, and implementation of ERP systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIS 5390A. Business Process Modeling.**

A study of tools and techniques for analyzing requirements of business process oriented systems. The course emphasizes a model driven approach and its usage for developing information controls. Unified Modeling Language (UML) is introduced to specify the user/system interaction, business logic, and data storage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CIS 5390B. Business Intelligence Project.**

Development of a system used for the implementation of analytics to diverse areas of interest, including: marketing, financial risk analysis, quality management in manufacturing, health care management, and geographic information systems. Prerequisite: CIS 5355, CIS 5364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Computer Science (CS)

**CS 1308. Computer Literacy and the Internet.**

A study of the uses of computers and their effects on society. Text processing, spreadsheets, databases, and Web programming. Does not count for computer science credit towards a minor, a BS, or a BA in computer science

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** COSC 1300

**CS 1319. Fundamentals of Computer Science.**

Provides fundamental knowledge of the six layers of computer science as per the ACM CS0 curriculum. The information, hardware, programming, operating system, applications, and communications layers are presented plus appropriate open computer laboratory exercises. Does not count for computer science credit towards a minor, BS, or BA in computer science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 1336

**CS 1428. Foundations of Computer Science I.**

Introductory course for computer science majors, minors and others desiring technical introduction to computer science. Contains overview of history and structure of the digital computer, including binary data representation. Problem solving, algorithm development, structured programming, good coding style, and control structures of C++ are emphasized. Prerequisite or co-requisite: MATH 1315

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** COSC 1437

**CS 2308. Foundations of Computer Science II.**

The course is an introduction to Abstract Data Types (ADTs) including lists, stacks, and queues. Searching and sorting, pointers and dynamic memory allocation, and simple classes and objects also will be covered. The course is a continuation of CS 1428. Prerequisite: CS 1428 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 2336

**CS 2315. Computer Ethics.**

This course is primarily for computer science majors, focusing on the ethical codes of the professional societies, the philosophical bases of ethical decision-making, and the examination of several contemporary case studies. Prerequisites: CS 1428, ENG 1310, COMM 1310, and PHIL 1305 or PHIL 1320 with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 2318. Assembly Language.**

A course covering assembly language programming, including instruction sets, addressing modes, instruction formats, looping, logic, data representation, subroutines and recursion; and the interface between hardware and software. Prerequisites: MATH 2358 and CS 2308 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COSC 2325

**CS 2420. Digital Logic.**

An introduction to fundamental computer technologies, including Boolean logic design, logic circuits and devices, and basic computer hardware. A laboratory providing hands-on experience with electricity, combinational and sequential digital circuits, and computer hardware. Prerequisite: CS 1428 with a grade of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CS 3320. Internet Software Development.**

A course providing foundations for the construction and design of static and dynamic Web pages with database applications. This will include server-side and client-side software development. Prerequisite: CS 2308 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 3339. Computer Architecture.**

Use of fundamental hardware components. Topics include ALU's, single and multiple cycle datapath and control, RISC vs. CISC, pipelining, caches, I/O, virtual memory and related performance issues. Prerequisite: CS 2318 or EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3354. Object-Oriented Design and Programming.**

The course covers object-oriented design principles and programming for students with prior programming experience. The topics include inheritance and polymorphism, object-oriented design process, UML diagrams, design patterns, exception handling and multithreading. Students will design and implement programs in Java. Cannot receive credit if the student has taken CS 4354. Prerequisite: CS 2308 with a grade of "C" or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3358. Data Structures and Algorithms.**

This is a course that covers classic data structures and the analysis of algorithms. Prerequisites: CS 2308 and MATH 2358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3369. Embedded Computer Systems.**

This course studies the architecture of embedded systems, micro-controllers, their peripherals, languages, and operating systems and the special techniques required to use them. Prerequisite: CS 2318 or EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3378. Theory of Automata.**

An introduction to automata theory, computability, and formal languages. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 3398. Software Engineering.**

The study of software design, implementation, and validation techniques through team projects. Structured analysis, programming style, and project documentation are emphasized in large software projects.

Prerequisites: (CS 2315 or EE 2400) and CS 3358 with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 4100. Computer Science Internship.**

Provides on-the-job training supervised by computer scientists in industry internship programs approved by the department. Prerequisite: CS majors and minors only

**1 Credit Hour. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 4298. Undergraduate Research I.**

Supervised individual research project in a mentor-student relationship with a computer science faculty member. Cannot be given degree credit until the satisfactory completion of CS 4299. Prerequisites: Junior standing; major GPA of 3.00; departmental approval

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**CS 4299. Undergraduate Research II.**

Supervised individual research projects in a mentor-student relationship with a computer science faculty member. Prerequisites: CS 4298 and departmental approval

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CS 4310. Computer Networks.**

A survey of network architectures and their components. Emphasis will be on media access, network and transport layer protocols. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4315. Introduction to Data Mining.**

This course covers fundamental concepts and techniques in data mining and information retrieval. Data mining topics include classification, cluster analysis and pattern mining. Information retrieval topics include Boolean retrieval, vector space model, and Web search. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4318. Compiler Construction.**

This course investigates theoretical and practical issues in the design and construction of modern compilers. Topics covered include lexical and syntactic analysis, syntax-directed translation, type checking, intermediate representation, code generation, and runtime systems.

A major portion of the course involves implementing a compiler from scratch for a C-like programming language. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4326. Human Factors of Computer Systems.**

Principles and methods in human factors and ergonomics applied to the design and use of computer systems. Prerequisite: CS 3358 with a grade of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CS 4328. Operating Systems.**

This course covers the principles of operating systems, algorithms for CPU scheduling, memory management, cooperating sequential processes and device management. Prerequisites: CS 3339 and CS 3358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4332. Introduction to Database Systems.**

Introduction to database concepts, data models, file structures, query languages, database management systems. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4346. Introduction to Artificial Intelligence.**

An introduction to the basic concepts of artificial intelligence; search techniques, knowledge representation, problem solving. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4350. Unix Systems Programming.**

Fundamentals of Unix operating systems, Unix file system and environment, C memory allocation, development tools, processes and signals, threads, device drivers, and programming for security. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4368. Survey of Computer Languages.**

A survey of computer languages. Criteria for choosing languages to be covered include history, important development paradigms and environments, and language implementations. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4371. Computer System Security.**

Course covers practical aspects of computer system security including managing and producing code for secure systems. Theory, such as cryptography, is introduced as needed. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4372. Introduction to Digital Multimedia.**

The course covers concepts, problems and techniques in digital multimedia. Topics include digital representation and data compression of text, speech, audio, natural and synthetic images, and video, as well as multimedia applications, transmission, and standards. In addition, the course introduces perceptual aspects of multimedia signals and sources. Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4378A. Introduction to Digital Forensics.**

This course is an introduction to digital forensics that describes the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices, and networks. Hands-on experience will be acquired through projects. Prerequisite: CS 4350 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378V. Introduction to Machine Learning.**

Provides systematic introduction to machine learning, covering basic theoretical as well as practical aspects of the use of machine learning methods. Topics include learning theory, learning methods, recent learning models, etc. Application examples include multimedia information retrieval, text recognition, computer vision, etc. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378W. Introduction to Human Computer Interaction.**

Introduces HCI topics specifically highlighted by new input modalities such as eye-tracking. Considers new input modalities as new channels for data gathering including multimedia compression, interface design, usability evaluation, biometrics. Application of HCI as interdisciplinary research tool also will be discussed. Prerequisite: CS 3358 with grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4378Z. Practical Game Development.**

Course teaches practical aspects of computer game design and implementation. Topics include graphics game engines, game physics, AI methods applied to games, and software architectures for computer games. Students will gain knowledge and skills needed for game development via team projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379A. Software Testing.**

The concepts used in a formal testing of safety critical and high-quality software applications are investigated. Topics include, but are not limited to, test design, static and dynamic testing tools, and formal testing documentation. Prerequisite: CS 3398 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379B. Introduction to Graphical User Interfaces.**

This course covers abstract and practical foundations of graphical user interface design, evaluation, and implementation. It discusses the fundamentals of computer graphics and interactive computer/human interfaces. The course includes a survey of usability measures, the major GUI standards, and GUI tools. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379Q. Introduction to Recommender Systems.**

This course covers the basic concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences. We will discuss how recommender systems are deployed in e-commerce sites, social networks, and many other online systems. Additionally, we will review current research in the field. Prerequisite: CS 3358 with a grade of "C" or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4379Y. Introduction to Green Computing.**

Reducing energy consumption of mobile devices, cloud computing platforms, and supercomputers is a paramount but daunting problem. This course covers fundamental concepts and techniques in green computing, including a hardware energy efficiency roadmap; energy efficient software design, resource management, and storage solutions; and green data centers and mobile computing. Prerequisites: CS 3339 and CS 3358 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 4380. Parallel Programming.**

This course teaches practical aspects of parallel programming. The covered topics include multi-core processors and shared-memory programming, hardware accelerator programming, and distributed-memory machines and message-passing programming. The students will gain the knowledge and skills needed for developing parallel software by writing programs for a variety of parallel computers. Prerequisite: CS 3358 with a grade of "D" or higher; or instructor consent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4388. Computer Graphics.**

A study of the hardware and software used in graphic representation and interpretation of data. Prerequisites: CS 3358 with a grade of C or higher and familiarity with trigonometric functions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 4395. Independent Study in Computer Science.**

Open to undergraduate students on an independent basis by arrangement with the faculty member concerned. Requires department chair approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**CS 4398. Software Engineering Project.**

Students undertake a software development project. They work in teams, developing requirements and designs which they will implement and test. Prerequisite: CS 3398 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5100. Advanced Computer Science Internship.**

This course provides advanced training supervised by computer scientists in internship programs approved by the department. Course cannot be counted toward any graduate degree, is open only to majors in the Department of Computer Science. May be repeated once but not for credit and requires approval of the department chair

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CS 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5300. Professional Development of Graduate Assistants.**

This course is designed to develop and enhance the professional and technical skills of graduate teaching and instructional assistants. Topics covered may include, but are not limited to, teaching skills, technical skills, ethical and legal issues, and laboratory management. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CS 5301. Programming Practicum.**

Intensive review of programming through data structures. Includes syntax, semantics, problem solving, algorithm development, and in-class exercises. May be repeated once. Does not count for credit toward any graduate degree. Prerequisite: CS 3358 with a grade of C or higher, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CS 5306. Advanced Operating Systems.**

A study of modern operating systems including network, distributed, or real-time systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5310. Network and Communication Systems.**

A study of network and communication systems. Verification and/or implementation of protocols will be required. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5316. Data Mining.**

This course covers fundamental concepts and techniques plus recent developments in data mining and information retrieval. It provides relevant research training and practice opportunities. May not be taken for credit if student received credit for CS 4315. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5318. Principles of Programming Languages.**

This course focuses on the principles of programming languages. Topics covered include programming paradigms, concepts of programming languages, formal syntax and semantics, and language implementation issues. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5326. Advanced Studies in Human Factors of Computer Science.**

Professional level presentation of techniques and research findings related to human-computer interactions. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5329. Algorithm Design and Analysis.**

Introduction to algorithm design and analysis, computational complexity, NP – completeness theory. Prerequisites: CS 3358, MATH 2472, and MATH 3398 or MATH 5358 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5331. Crafting Compilers.**

Overview of the internal structure of modern compilers. Research on compilation techniques. Topics include lexical scanning, parsing techniques, static type checking, code generation, dataflow analysis, storage management, and execution environments. Prerequisite: CS 3358 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5332. Data Base Theory and Design.**

Computer system organization for the management of data; data models, data model theory, optimization and normalization; integrity constraints; query languages; intelligent database systems. Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5334. Advanced Internet Information Processing.**

Integration of popular scripting languages (Perl, JavaScript, PHP, and other CGI capable languages) and database programming languages (embedded database programming languages, JavaServlets, and PHP) to provide advanced information processing for Internet applications that demand both database support and sophisticated, application specific information processing. Prerequisite: CS 4332 or CS 5332 with a grade of “C” or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5335. Research in Object-Oriented System Development.**

The course covers the object-oriented methodologies for system analysis, design, implementation, testing, and other aspects of system development. Emphasis will be on using OO methodologies to manage the complexity of complicated software. Other topics like modeling, OODB, and OO languages will also be covered. Prerequisites: CS 3358, and either CS 4332 or CS 5332 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5338. Formal Languages.**

Advanced topics in automata theory, grammars, Turing machines, decidability, and algorithmic complexity. Prerequisites: CS 3358 and MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5341. Advanced Network Programming.**

Study of advanced concepts and programming skills in computer networks such as advanced TCP/IP, API, multicasting and broadcasting, reliable communications, advanced I/O functions and options. Prerequisite: CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5343. Wireless Communications and Networks.**

Study of the fundamental aspects of wireless communications and wireless/mobile networks, introduction of wireless/mobile networking APIs. Prerequisites: CS 3358 with a grade of B or higher and CS 5310 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5346. Advanced Artificial Intelligence.**

Knowledge representation; knowledge engineering; parallel and distributed AI; heuristic searches; machine learning and intelligent databases; implementation of systems in high-level AI languages.

Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5348. Computer Organization and Design.**

This course covers the dynamic interaction of the computer system building blocks and their management. Course topics include the design of the instruction set, high speed arithmetic, memory hierarchy, and control units. Computer system performance evaluation methodology and techniques are also covered. Prerequisites: CS 3339 and CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5351. Parallel Processing.**

Introduction to the design and analysis of parallel algorithms, parallel architectures, and computers. Prerequisites: CS 3358, CS 3409, and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5352. Distributed Computing.**

Study of advanced topics in distributed systems: concurrency control and failure recovery, management of replicated data, distributed consensus and fault tolerance, remote procedure calls, naming and security.

Prerequisites: CS 3358 and CS 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5369D. Advanced Digital Forensics.**

This course provides a comprehensive understanding of the techniques and tools used in criminal and civil investigations that involve computing systems, digital devices and media, and communication networks. The course covers recent research material published in the field. Hands-on experience will be acquired through case studies and projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369G. Web Service Engineering.**

Advanced concepts and techniques for enabling Web application integration and interaction using Semantic Web and Web services. Concepts and techniques include service discovery ontology (RDF, DAML-S), XML-based interactions standards (eXML, RosettaNet) and Web Services (WSDL, SOAP, UDDI, BPEL). Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**CS 5369J. Advanced Human Computer Interaction.**

This course will cover state of the art human computer interaction topics such as perceptual compression, eye-gaze, and brain computer interfaces with emphasis on the human visual system, eye-tracking, and electroencephalography. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369L. Machine Learning and Applications.**

Provides broad introduction to machine learning, including learning theory, and recent topics like support vector machines and feature selection. Covers basic ideas, intuition, and understanding behind modern machine learning methods. Discusses applications like face recognition, text recognition, biometrics, bioinformatics, and multimedia retrieval. Prerequisite: CS 3358 grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369M. Software Evolution and Maintenance.**

Software evolution and maintenance is one of the most important and complex activities in software engineering. Programmers rarely build software from scratch but often modify existing software to fix defects or add new features. This course studies the fundamentals of cutting-edge techniques and tools for software evolution and maintenance. Prerequisite: CS 3358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369Q. Recommender Systems.**

This course covers various concepts of recommender systems, including personalization algorithms, evaluation tools, and user experiences. Discussion of how recommender systems are deployed in business applications, design of new recommender experiences, and how to conduct and evaluate research in recommender systems. Cannot take for credit if already took CS 4379Q. Prerequisite: CS 3358 with a grade of C or higher or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5369R. Research in Digital Forensics.**

Students will design and implement computer-based forensic tools applicable to an instructor chosen domain

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CS 5369Y. Green Computing.**

Reducing mobile device, cloud computing platform, and supercomputer energy consumption is a paramount, daunting problem. This course covers state-of-the-art green computing research, including energy-efficient hardware and software design, power-aware resource management and storage solutions, green data centers and mobile computing. Cannot be taken for credit if received CS 4379Y credit. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CS 5374. Neural Networks.**

A study of neural computing, including basic concepts, algorithms, and applications; back propagation and counter propagation networks; Hopfield networks; associative memories; massively parallel neural architectures; adaptive resonance theory; optical neural networks; connectionist approaches. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5375. Multimedia Computing.**

A study of the digital representation and processing of major multimedia data types: image, audio, and video. Compression techniques for the three data types, standards, and storage media. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5376. Enterprise Application Integration.**

Introduction to the integration of all services available on the Web. It emphasizes component-based integration frameworks based on J2EE specification (EJB, Servlets, JMS), inter-organization workflow integration frameworks, and XML framework. Students must have knowledge of object-oriented design, object-oriented programming language, databases, and networking. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5378. Advanced Computer Security.**

This course covers various aspects of producing secure computer information systems that provide guaranteed controlled sharing. Emphasis is on software models and design, including discovery and prevention of computing systems security vulnerabilities. Current systems and methods are examined and critiqued. Prerequisite: CS 3358 with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5388. Advanced Computer Graphics.**

A study of the algorithms and data structures used in representing and processing visual data. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5389. Graphical User Interfaces.**

Covers both abstract and practical treatments of using graphics to implement interactive computer/human interfaces. Includes a survey of the major GUI standards and tools. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5391. Survey of Software Engineering.**

A study of the software life cycle with emphasis on system analysis and design. Methodologies based on data flows and on objects will be surveyed. A component on professional ethics is included. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5392. Formal Methods in Software Engineering.**

The use of design and specification languages in producing software systems. Emphasis is placed on proving correctness of designs and implementations. Prerequisites: CS 3358 and CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CS 5393. Software Quality.**

The latter half of the software life cycle is discussed. Topics include testing, performance evaluation, and software metrics. Appropriate software tools are studied and used. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5394. Advanced Software Engineering Project.**

Students produce a software project of significant size in a team environment. All aspects of the software engineering course sequence are integrated and put into practice. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CS 5395. Independent Study in Advanced Computer Science.**

Open to graduate students on an independent basis by arrangement with the faculty member concerned. Course is not repeatable for credit. Prerequisite: CS 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5396. Advanced Software Engineering Processes and Methods.**

The essentials of software engineering processes, methods, and tools for the evolutionary design of complex interactive software are discussed. Overviews of other topics like quality concepts, SEI CMM, information technology, and network technology are covered. Student completes a literature survey of the latest software engineering analysis and design processes, methods, and tools. Prerequisite: CS 5391

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in CS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CIM 3330. Concrete Construction Methods.**

This course covers forming, shoring, placing and reinforcing operations. Transporting, placing, consolidating, finishing, jointing and curing concrete for cast-in-place foundations, pavements, slabs on ground, structural frames, and other structural members are studied. Other topics include waterproofing concrete foundations and erecting precast concrete members. Prerequisite: CIM 3420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 3340. Understanding the Concrete Construction System.**

A detailed look at how the concrete construction industry works. The course includes a review of model building codes, building officials and their function, concrete industry codes and standards, concrete construction processes, quality assurance systems, contract documents, estimating, construction scheduling and concrete construction markets. Prerequisite: MATH 2328 and CIM 3420

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 3366. Applications of Concrete in Construction.**

This course is a detailed study of the many uses of concrete in the construction of buildings, pavements and other facilities. Emphasis will be placed on the advantages, disadvantages, and unique problems faced by materials suppliers, contractors and design professionals when concrete is chosen for specific applications. Prerequisite: CIM 3330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 3420. Fundamentals of Concrete: Properties and Testing.**

This course examines effects of concrete-making materials (aggregates, cements, admixtures, etc.) on the properties of fresh and hardened concrete. Concrete mixture proportioning calculations and statistical analysis of strength tests are also studied. Prerequisite: CSM 2342

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CIM 4310. Senior Concrete Lab.**

This course provides students with an opportunity to further develop their technical and laboratory knowledge and pursue a project of individual interest. A formal report/presentation will be required at the conclusion of the course. Prerequisites: CIM 3366 and CIM 3420 with grades of C or better

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 4330. Management of Concrete Products – Ordering and Scheduling.**

This course is designed to provide the student with a basic understanding of managing the ordering and delivery process common to all concrete products. Emphasis will be in planning, organizing and controlling at both the first-line supervisory and managerial levels. Prerequisites: CIM 3340 and MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Concrete Industry Management (CIM)

**CIM 4340. Concrete Problems: Diagnosis, Prevention and Dispute Resolution.**

Course involves diagnosing/preventing problems related to concrete production, testing, construction and performance. Students learn to identify causes of fresh and hardened concrete problems, i.e. fast and slow setting, air content variations, low strength, cracking and scaling. Pre-job conferences and dispute resolution methods are examined.

Prerequisite: CIM 3366

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 4398. Capstone.**

An intensive study of a problem(s) appropriate to the major/student's career interests. Requires knowledge from previous technical/business coursework. Solution(s) for the problem(s) will be presented to an industry committee. Presentation must emphasize depth of analysis, completeness/effectiveness of solution, and presentation skills.

Prerequisite: CIM 4330. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**CIM 5330. Advanced Concrete Technology.**

The course will cover hydraulic cements, aggregates, admixtures, and mix design; concrete production, quality control, early-age properties and durability. Concrete distress examination, identification, prevention, and nondestructive testing; advanced concrete technology, high-strength and high performance concrete. Prerequisite: CIM 2342

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CIM 5340. Innovation Strategies for the Concrete Industry.**

This course provides students a new set of tools for and experience in finding and developing innovative alternatives for addressing strategic business problems in concrete industry. Students will explore creativity from individual and team perspectives and identify innovation opportunities and roadblocks in organizational settings. Prerequisite: CIM 3340 and CIM 3366 or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Construction Science and Management (CSM)

**CSM 1260. Introduction to the Construction and Concrete Industry.**

This is an introductory course for Construction and Concrete Industry Management (CIM) majors. Residential, commercial, heavy, civil and highway construction is explored including the concrete industry. The role of the contractor, architect/engineer and owner are covered including contracts, careers, sustainability and economic importance of the construction industry

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 2160. Introduction to Construction Surveying and Site Layout.**

Common construction surveying and site layout techniques are studied using both optical levels and total stations. Benchmarks, building lines, property lines, differential and profiling are discussed in lecture with applied exercises performed in the laboratory. Prerequisite: Pre-Construction or Instructor's Approval

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2313. Architecture Design I - Construction Documents.**

Students are introduced to the language and process of producing architectural construction documents in residential projects utilizing computers and CAD software. Site plans, floor plans, sections, elevations, and details are drawn individually and as a team as orthographic projection theory and its importance in resolving complex building geometry are covered

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2342. Construction Materials and Processes.**

This course will introduce students to various types of construction materials including ceramics, ferrous, non-ferrous, and organic materials used in construction. Their properties, working characteristics and processes used to manufacture and assemble these materials are studied. Laboratory activities are used to reinforce lecture material. Prerequisites: PHYS 1315/PHYS 1115 or PHYS 1410 or PHYS 1430 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 2360. Residential Construction Systems.**

A residential construction course, which deals with interpreting plans and specifications, along with studying site work, foundations, walls, roofing, ceilings, floor and finishing systems. Also, residential MEP systems are covered along with applicable building codes and construction financing. Prerequisite: CSM 2342 or Instructor's Approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 3360. Structural Analysis.**

This is a structural engineering fundamentals class to include design loads, reactions, force systems, functions of a structure, and both the analysis and design of determinate structures by classical and modern techniques. Prerequisites: Completion of Pre-Construction coursework and TECH 2351 with a grade of "C" or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3361. Commercial Building Construction Systems.**

This is a commercial building construction systems class that deals with soils, site work, heavy foundations, steel, reinforced concrete and pre-cast structures along with common assemblies. Commercial MEP's are studied along with CSI master format, as-built and shop drawings, schedule of values, AIA documents and appropriate building codes. Prerequisite: Pre-Construction or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3363. Heavy, Civil and Highway Construction Systems.**

Selection, acquisition and capabilities of heavy construction equipment are presented. Applications of economics to performance characteristics and production of equipment is discussed. Sector-specific construction management methods are covered, including unit price estimating, equipment fleet design, repetitive scheduling and major components of highways, bridges and engineered facilities. Prerequisite: Pre-Construction or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 3366. Soils and Foundations.**

Properties of subsurface materials and the principles of subsurface construction are studied. Topics include soil classification and testing, soil mechanics and foundation systems, including site layout, excavation, caissons, piles, slurry wall, slab and spread footings. Prerequisite: Pre-Construction and TECH 2351 with a grade of "C" or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 3367. Mechanical, Electrical and Plumbing Systems.**

This course covers typical Mechanical, Electrical and Plumbing (MEPs) systems found in residential and commercial construction along with design and installation methods used to conserve both energy and water in new and remodeled structures. Prerequisites: Pre-Construction coursework or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4313. Architectural Design II - Technology in Construction.**

Students create individual and group commercial projects which include plans, elevations, sections, details, and 3D drawings utilizing 3D building information modeling (BIM) and other current technologies used in the industry. Structural, mechanical, electrical, plumbing, accessibility, and sustainable building issues are discussed. Prerequisite: CSM 2313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4360. Senior Construction Management Capstone.**

Students work in groups to prepare a bid proposal based on a real life construction project involving contract negotiations, construction documents interpretation, estimating, bidding, scheduling and developing safety and quality control plans. Emphasis is on developing leadership, team building, and written and oral communication skills. For senior construction majors. Prerequisites: Pre-Construction coursework or MATH 2471 and CSM 4313, CSM 4361, CSM 4364, CSM 4369 or Instructor's Approval. Recommended TECH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4361. Construction Estimating.**

The fundamentals of construction estimating are covered including feasibility, conceptual, square feet, cubic feet, unit in place, preliminary, engineering, range and contractor's detail bid estimates. Plans and specifications are used along with contemporary estimating software to develop estimates commonly used in the construction industry.

Prerequisite: Pre-Construction and CSM 3361 or Instructor's Approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4364. Construction Project Management and Scheduling.**

Concepts of construction management are studied beginning with contract documents through the effective management of manpower, machines, material and money necessary to complete construction projects on time and within budget. Gantt Charts and PERT/CPM schedules are developed, using contemporary software. Prerequisites: Pre-Construction coursework and CSM 4361 (concurrent enrollment allowed) or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CSM 4368. Environmentally Conscious Design and Construction.**

This course covers environmentally sustainable practices used in building design and construction. THE LEED system will be used to guide the course, which covers aspects of sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality and the CAD design process. Prerequisite: Pre-Construction or ID 2329 and CSM 2313 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CSM 4369. Construction Contracts, Liability and Ethics.**

Legal aspects of design and construction contract documents are presented, including contract formation, interpretation, rights and duties and changes. Legal liabilities are explored in the context of professional ethics for design firms and constructors. Prerequisite: Pre-Construction Coursework or CIM 3340 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CSM 5302. Fundamentals of Construction Contracts and Liability Issues.**

This course introduces students to the legal aspects of design and construction contract documents, including dispute resolution methods and professional ethics commonly used in the construction industry. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5304. Fundamentals of Construction Estimating.**

This course provides the student with a comprehensive introduction to the principles, techniques, technologies, and basic concepts involving methodologies and strategies used in the preparation of various types of construction estimates and bids. This course does not count as degree credit

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5306. Fundamentals of Commercial Building Construction Systems.**

This course is a commercial building construction systems class dealing with soils, site work, heavy foundations, steel, reinforced concrete, pre-cast structures and common assemblies. Commercial MEPs are studied along with CSI master format, as-built/shop drawings, schedule of values, AIA documents, and appropriate building codes. Does not count as degree credit

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Leveling

**Grade Mode:** Leveling/Assistantships

**CSM 5313. Building Information Modeling.**

This course covers understanding the supervisory role of construction professionals in the design process including, directing a design team in the integration of construction documents for commercial buildings, coordination of site work, structural, architectural, mechanical, electrical, plumbing plans and contemporary CAD software for 2D& 3D design including Building Information Modeling. Prerequisite: CSM 2313 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5360. Construction Company Financial Control.**

Financial accounting and cost controls used at the company level in construction companies are studied. Topics include accounting systems, construction project profit calculations, and financial analysis. Prerequisites: CSM 5302, CSM 5304, and CSM 5306 or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CSM 5362. Construction Contract Delivery Systems.**

The course will introduce students to designer/contractor interactions, including conceptual estimating and scheduling, the RFQ/RFP process and legal, insurance, risk allocation issues, along with procurement and selection. Prerequisites: CSM 5302, CSM 5304, and CSM 5306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Consumer Affairs (CA)

**CA 1341. Consumers in the Marketplace.**

This course is an introduction to consumerism. Topics covered include: the consumer's role in the economy; consumer responses to the pressures of the economy (credit, inflation, and savings); and an analysis of the largest consumer expenditures (housing, food, and transportation)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ECON 1303

**CA 1347. Family and Personal Resource Management.**

This course focuses on the analysis of family and personal management processes including resource identification and factors that impact management and decision making. Contemporary issues in the field such as changing family roles, one-parent families, aging, the handicapped, low income families, one-person family and alternate lifestyles will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 2341. Digital Applications in Consumer Finance.**

This course provides students with an understanding of technology applications used to analyze consumer's financial situation, needs, and goals. Topics include constructing personal financial statements; cash flow; time value of money related to education, retirement, life insurance; and amortization. Students will use calculators, Microsoft Excel and personal financial planning software. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 3341. Family Finance.**

In this course students will examine personal/family financial management during different stages of the family life cycle. Topics include budgeting/recordkeeping to achieve economic goals, the role of credit and the need for financial counseling; economic risks and available protection; and alternative forms of saving and investments. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 3342. Consumer Law.**

This course explores the relationship between consumer laws (federal and state) and policy. Topics include consumer protection legislation which defines the consumer's rights/responsibilities and the appropriate avenues of redress on the part of the consumer. Prerequisite: CA 1341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 3351. Consumer Financial Management I.**

Principles and practices of individual and family financial management relating to insurance needs and selection, investment strategies to realize financial goals and income tax planning to improve financial well-being will be addressed. Technical skills required of financial counselors, planners and human resource management are emphasized. Prerequisites: CA 1341 and CA 2341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 3352. Consumer Financial Management II.**

Principles and practices of individual and family financial management relating to retirement and estate planning to improve financial well-being will be presented. Technical skills required of financial counselors, planners and human resource management will be emphasized. Prerequisites: CA 1341 and CA 2341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 3391. Communication Skills and Techniques.**

This course covers the analysis of factors that influence program planning and the application of program development for entities with differing purposes and organizational structure. Students plan, develop, and implement using alternative methods, such as audio-visuals, demonstration techniques, radio and television, with emphasis on methods for use with adults. Restricted to students in the School of Family and Consumer Sciences

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CA 4100. Professional Preparation in Consumer Affairs.**

Students explore Consumer Affairs in the professional world and continuing education through opportunities, interviews, and professional ethics while practicing the development of credentials and portfolios.

Required of all seniors majoring in Consumer Affairs

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 4301. Internship in Consumer Affairs.**

This course is an Internship program in Consumer Affairs related professions, services, business, or industry. Must meet college, department and program requirements. Repeatable for credit with different emphasis. (Capstone Course) (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**CA 4341. Counseling for Family Practitioners.**

This course is an in-depth study of the role of the financial counselor.

Topics covered will increase awareness and knowledge of the characteristics of persons with financial difficulties, complexity of factors affecting such situations, desirable relationships between the helper and helped, and an awareness of community resources. Prerequisite: CA 3341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 4342. Financial Counseling Practicum.**

This course focuses on applying financial counseling and consulting skills consistent with accepting financial counselor roles. Content includes theoretical models of financial counseling. Prerequisite: CA 3342 and CA 4341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CA 4391. Independent Study in Consumer Affairs.**

This course involves independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. Course may be repeated once for credit with approval of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Counseling (COUN)

**COUN 3320. Introduction to Counseling and Psychotherapy.**

The course is designed for upper-division undergraduates considering a helping profession or who wish to know more about counseling before entering into graduate study. The course offers introduction to counseling, counseling theories, and interpersonal communication skills that facilitate counseling relationships. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**COUN 5158. Group Counseling Pre-Practicum.**

This course is an experiential study of group dynamics, processes, and applications. Group stages, tasks and skills of group members and leaders, and the importance of developing an understanding of the therapeutic value of group, are covered. This course involves role-played participation in a group designed to closely resemble a real-life group experience. Students will participate as co-leader as well during the semester. Graded on a credit (CR), no credit (F) basis. Corequisite: COUN 5358

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5178. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated twice for additional credit at the discretion of the department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5301. Professional Counseling Orientation.**

Community-based Counseling is presented as a basis for counselors who intend on working in community counseling agencies. This course includes theoretical and applied information based on a variety of settings, as well as a variety of intervention strategies, presented via didactic and experiential coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5305. Assessment in Counseling.**

Problems and principles of administration, scoring and interpreting group and individually administered tests; utilization of test data for diagnostic, placement, predictive, and evaluative purposes; elementary statistical procedures; laboratory activities in test administration, scoring, and interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5307. Theories of Counseling and Personality.**

This course surveys systematically derived theories of counseling and personality from their origins in social discourse, philosophy, and psychology to the present time. Each theorist is presented biographically and the theory considered with regard to its clinical, cultural, and ethical relevance and application to diverse populations. Prerequisite: COUN 5350 preferred

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**COUN 5316. Counseling Diverse Populations.**

This seminar is designed to sensitize students to the roles societal power disparities, therapist's racial identity and awareness, and client racial/cultural identity play in counseling persons of diverse backgrounds. The dynamics of counseling clients who are African-American, Asian-American, female, gay/lesbian, Latino/a, Native-American, and persons with disabilities, will be examined. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**COUN 5328. Professional Orientation in School Counseling: Leadership, Advocacy, and Accountability.**

Orientation to identity and role of professional school counselors, and introduction to the study of comprehensive developmental guidance programs. Course reflects the Texas and ASCA Models with related standards. Topics include: program planning, implementation, and evaluation; use of data and accountability; leadership role; and ethical and legal practices in schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5330. Assessment Applications in Child & Adolescent Counseling.**

This course emphasizes a hands-on approach to the assessments most frequently used by school counselors and child and adolescent counselors. Topics include assessment measures, statistical and research concepts, program evaluation and interpretation. Implications for counseling are also addressed. Prerequisites: COUN 5328 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5338. Advanced Issues in School Counseling: Counseling, Consultation, and Coordination of Services.**

Course covers advanced topics in counseling children and adolescents in schools. Emphasis will be placed on developmentally appropriate preventative and responsive counseling services. Consultation and collaboration with parents, school personnel, and community partners, as well as contextual issues in school counseling, will be addressed. Prerequisites: COUN 5328, COUN 5316, COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5340. Loss and Grief Recovery Counseling.**

An in-depth study of loss and its aftermath, grief. Emphasis is given to the counseling literature, loss and grief in the arts, personal loss experience, and particular counseling interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5344. Substance Abuse and Counseling: An Introduction.**

This course focuses on chemical dependency across counseling settings, including school, agency, and private practice. This course includes theoretical and applied information on causative factors, assessment, and treatment strategies across a variety of settings and populations via didactic and experimental coursework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5345. Psychodrama Methods.**

The course is both didactic and experimental. It provides a history of therapeutic drama beginning with the Greek theater of Dionysus. The work of J.L. Moreno is presented and the basic tenets of the theory studied. Students then engage in creating, producing, and acting out actual psychodramatic productions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5346. Filial Therapy.**

Theoretical and practical application of the filial model will be addressed as well as techniques in training parents in the overall principles and methodology of child-centered play therapy. Graded on a credit (CR), no credit (F) basis. Corequisite: COUN 5689 or COUN 5389 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5350. Advanced Counselor Ethics.**

An introduction to the counseling profession as practiced in a variety of clinical and human service settings. Emphasis is placed on the philosophical and psychological foundations of mental health counseling, personal/professional traits and skills of effective counselors, professional ethics, licensure, credentialing and professional regulation, and contemporary professional issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5351. Current Issues in Marriage, Couple and Family Therapy.**

This course provides students with information regarding special issues in marital, couple and family counseling, including: grief and loss; domestic violence; substance abuse in the family; lesbian, gay, bisexual, and transgender issues; divorce; and re-parenting. Prerequisite: COUN 5316 and COUN 5367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5354. Basic Techniques in Counseling.**

This course is designed to introduce the student to basic counseling skills via role-play and videotape. The course also provides a general model of effective counseling, including basic communication skills and theory techniques. Prerequisite: COUN 5307 with a minimum grade of "B"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5355. Career Counseling.**

Career choice and development are considered as critical aspects of persons in material cultures where occupation is a major component of one's identity. Career concerns often addressed in counseling are presented and discussed along with the area of vocational guidance, occupational information, and preference inventories

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5358. Dynamics & Processes in Group Counseling.**

An intensive laboratory experience requiring highly active student participation in the form of honest, direct, and open communication combined with authentic self-exploration within the group setting. Through participation and required reading, students will gain first-hand familiarity with the basic principles of the dynamics that are characteristic of therapeutic groups. Prerequisites: COUN 5354 and COUN 5307. Corequisite: COUN 5158

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5359. Psychopathology in Clinical Mental Health Counseling.**

The principles of understanding dysfunction in human behavior and systemic organization. This course includes diagnostic, preventive, and remedial methods and interventions. Prerequisite: COUN 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5360. Intermediate Methods in Marital, Couple and Family Counseling.**

Marital, couple, and family theory and techniques are discussed, selected, applied, and refined through lecture and supervised clinical practice. Specific skills include joining, diagnosis, goal formulation, treatment planning, termination, referral, and record keeping. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5354, COUN 5359, COUN 5367, and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5362. Practicum in Professional Supervision: Theories and Applications.**

Provides experience in supervising practicum or intern students and integrating the theoretical foundations and current issues of professional supervision. Emphasis includes ethical, multicultural, gender, age, and lifestyle concerns in supervisory relationships, and academic requirements for supervisory status for Texas Licensed Professional Counselor and Licensed Specialist in School Psychology credentials. Course can be repeated once for credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5366. Intermediate Methods in Adult Counseling.**

Counseling theories and techniques are discussed, selected, applied and refined through lecture and supervised practice. Specific skills include initiating the helping relationship process, diagnosis, goal formulation, treatment planning, termination, referral, and record keeping. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5354 and COUN 5359

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5367. Marital and Family Counseling: Current Theories.**

This course is designed to examine the principles of communication and the goals of marital, couple and family counseling. Selected theories, approaches and techniques used in marital, couple and family counseling will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5368. Developmental Issues in Counseling Children, Adolescents, and Adults.**

Emphasis will be on understanding the interactions between the developmental needs of each of these age groups and counseling techniques and procedures used to deliver mental health services to each of these groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5369. Child and Adolescent Counseling Methods.**

Course focus is an overview of counseling interventions with children and adolescents in agency, school, and private practice. Group, individual, and systems techniques will be covered. Assessment of child psychopathology and techniques for consulting with parents will be included. Prerequisites: COUN 5354 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5370. Intermediate Methods in Counseling Adolescents.**

This course will provide an overview of the physical, social, psychological, and behavioral characteristics of the adolescent. This course has a supervised practice experience. Emphasis will be placed on counseling interventions utilizing current research. Prerequisites: COUN 5316, COUN 5359 and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5372. Assessment and Treatment in Marriage and Family Counseling.**

This course addresses the assessment of individual, couple, and family functioning and the planning and implementation of marital, couple and family treatment methods. Prerequisite: COUN 5367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5373. Intermediate Methods in Play Therapy.**

This course explores the philosophical basis for play therapy, the history of play therapy, theoretical applications, techniques, stages, ethical issues, and application to a variety of populations and diagnostic categories. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5316, COUN 5359 and COUN 5369

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5375. Intermediate Methods in School Counseling.**

This course emphasizes the skills needed to work with school aged children (Pre-K - 12). Students will learn counseling interventions specific to school aged children, and they will work with one student over the course of the semester. In addition, students will lead one group outside of the class in order to receive full credit for the course. Prerequisites: COUN 5328 and COUN 5368

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5378. Problems in Counseling.**

Individual problems not related to thesis. Designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5380. Introduction to Animal-Assisted Therapy.**

Animal-assisted therapy (AAT) is the incorporation of qualified animals into therapeutic settings. This course will provide an introduction to the animal-assisted therapy field, the human-animal bond, evidence-based research in AAT, various therapeutic settings, and positive training approaches. Instructor approval is required for enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5381. Sandtray Therapy Methods.**

This course provides students with the philosophical basis for sandtray therapy as a therapeutic intervention for children and families, including a review of its history, applications, techniques, stages, and ethical issues. Didactic and experiential methods are used. Prerequisite: COUN 5369. Co-

requisite: COUN 5389 or COUN 5689 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5389. Site-Based Internship.**

An on-site practicum-internship occurring in a school or agency setting with supervision by on-site and university supervisors. May be repeated based on the recommendation of the counseling faculty. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5689, recommendation of COUN 5689 supervisor, and consent of COUN 5389 supervisors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5391. Research Methods.**

Research, measurement, and design procedures for addressing issues in school psychology, counseling, and education. A research project is required of each student

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**COUN 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in COUN 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5689. Clinical Practicum.**

This practicum includes counseling clients in university-affiliated counseling clinics, and a staffing seminar. May be taken up to three times (18 credit hours) based on the recommendation of the counseling faculty. Graded on a credit (CR), no credit (F) basis. Prerequisites: COUN 5301, COUN 5328, COUN 5358, and all required coursework completed or departmental permission

**6 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**COUN 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Criminal Justice (CJ)

**CJ 1310. Introduction to Criminal Justice.**

History and philosophy of criminal justice: ethical considerations, crime defined, overview of criminal justice system, law enforcement, court system, prosecution and defense, trial process, and corrections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1301

**CJ 2310. Police Systems and Practices.**

Police profession: organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 2328

**CJ 2350. The Courts and Criminal Procedure.**

Judiciary in the criminal justice system: structure of American court system, prosecution, right to counsel, pre-trial release, grand juries, adjudication process, types and rules of evidence, and sentencing. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1306

**CJ 2355. Correctional Systems and Practices.**

Corrections in the criminal justice system: organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, and current and future issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 2313

**CJ 2360. Fundamentals of Criminal Law.**

A study of the nature of criminal law: philosophy and historical developments, major definitions and concepts, classification of crime, elements of crimes and penalties using Texas Statutes as illustrations, and justifications of and defenses to criminal responsibility

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** CRIJ 1310

**CJ 3300. Juvenile Justice.**

A study of the juvenile justice process to include both the specialized juvenile law and the role of the courts, police and corrections in juvenile justice. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3322. Race, Ethnicity and Criminal Justice.**

This course examines the relationship between race/ethnicity and the criminal justice system. Theories of race/ethnicity and crime, the criminal justice system, and social systems including media, politics and economics are examined to form a comprehensive understanding of the social construction of race as it pertains to a racially disproportionate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3323. Mid-Level Management in Criminal Justice Agencies.**

Introduction and overview of the organizational theories of classical behavioral, and systems management concepts. Included in the course content are analyses of the functions of management in modern CJ organizations, internal and external environmental factors, individual & group dynamics, motivation, and leadership styles. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3325. Penology.**

Role of the institution in the process of corrections including the philosophy of imprisonment, the inmate subculture and special problems and programs in institutions. Prerequisite: CJ 1310 and CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3329. Forensic Evidence.**

Investigator's role in collecting, preparing and presenting evidence in criminal trials. Special attention will be given to electronic evidence in addition to traditional physical evidence. Prerequisites: CJ 2350 and CJ 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 3346. Research in Criminal Justice.**

Analysis of criminal justice research, survey methods, and the utilization of research in criminal justice. Prerequisite: CJ 1310, CS 1308 or equivalent and Statistics (CJ 3347, MATH 2328, PSY 3301, SOCI 3307 or equivalent). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 3347. Statistics For Criminal Justice.**

The theory and application of statistical inferential techniques, and correlation and regression for behavioral science data and its applications in Criminal Justice. Emphasis is on the collection, analysis, and interpretation of statistical data in criminal justice settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4301. Internship I.**

Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**CJ 4302. Internship II.**

Field service training in public and private criminal justice agencies at the federal, state and local levels. The internship is designed to provide actual work experience, observation, and analysis in the student's chosen career field. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**CJ 4309E. Criminal Justice in Southeast Asia.**

This course provides an overview of the systems of policing, criminal courts and criminal procedure, prisons, and non-institutional corrections in the nations of Myanmar (Burma), Laos, Vietnam, Thailand, Singapore, Cambodia, the Philippines, Malaysia, and Indonesia, and critically examines justice-related political, social, cultural, and human rights issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 4309F. The Psychology of Antisocial Behavior.**

This course examines how psychological perspectives are used to explain antisocial behavior, by drawing on the intersection between theory and research in the following areas in psychology: developmental, child psychopathology, biological, personality, cognitive, and social

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 4309G. Media and Crime.**

This course focuses on media's role in social control of society by exploring public understanding of the problems associated with crime and their solutions through a critical examination of the relationships between the media, the criminal justice system, and crime in the larger context of society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 4310. Special Problems in the Criminal Justice System.**

A study of contemporary problems in administration, management, organization and operation of criminal justice agencies. Prerequisites: CJ 2310, CJ 2350, CJ 2355, CJ 2360 and senior standing. (Capstone Course). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**CJ 4314. Terrorism in the United States.**

Terrorist groups operating in the U.S. are examined with special emphasis on the far-right (militia, Christian identity, neo-nazi, other racist groups). Analyzed are their belief systems and structures, organizational structure, tactics and targets, and weapons. Future trends are discussed, including the threat posed by nuclear, biological, and chemical terrorism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4316. Treatment in Community and Institutional Corrections.**

A study of community based programs for adult and juvenile offenders, treatment modalities in various correctional settings, administration, legal issues, and future trends associated with community-based and institutional based treatment. Prerequisites: CJ 2355 and CJ 3325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4321. Occupational Crime.**

A study of the problems of organized and upper social status criminal activities with emphasis on statutes and their application to fraud, embezzlement, deceptive trade practices and illegal trade practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4323. Special Operation Units in Law Enforcement and Corrections.**

This course introduces students to the basic principles of Special Operations Units (SOUs) within criminal justice agencies. Topics include the necessity for such units, the changing nature of communities and policing in America, the principles of crisis management, the development/implementation of SOUs, selection/training/operationalizing of personnel, and types of SOUs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4326. Women and Criminal Justice.**

This course is designed to explore women's involvement in three primary areas of criminal justice-as victims, criminals and practitioners employed in criminal justice agencies. It will analyze the impact of sex and gender on such things as criminological theory, sentencing, prison subcultures victimization and career choices. Prerequisite: junior standing. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4327. Ethics of Social Control.**

This course is designed to explore moral decision making. Basic moral or ethical frameworks are applied to ethical decision which often need to be made in the criminal justice system. Prerequisite: junior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4329. Organized Crime.**

Survey of organized crime in contemporary society. Includes attention to crime types and methods, motivation, affiliations, and the effects of this type of criminality. Related legal and law enforcement perspectives will be covered, along with international and cyberspace issues. Prerequisite: CJ 1310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4330. Cybercrime.**

This course introduces students to the concepts, technologies, techniques and legal and ethical issues associated with cybercrime, security, and computer forensics. Students will gain knowledge regarding development of national and international computer crime law, crimes unique to computer environments, and traditional crime involving computers and the Internet

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4331. Serial Murder.**

This course covers the phenomenon of serial murder and the police investigative response. Theories, concepts, and law enforcement analytic methods are covered in detail. Emphasis is placed on understanding the reality versus the myth of serial murder, serial killers, and criminal profiling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4332. Advanced Criminal Justice Management.**

A critical analysis of the nature of organizations within the criminal justice system. An analysis of theories of organizations and of organizational changes within law enforcement agencies. An examination of the quantitative data gathered by the Criminal Justice System and its effective use and presentation. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 4340. Crime Theory and Victimization.**

Examination of the causes of crime and crime victimization and competing explanations for crime and the impact of crime on crime victims. This course draws on perspectives advanced by a number of diverse fields of inquiry, for example, biology, psychology, sociology, and the political and economic sciences. Prerequisites: CJ 1310 and CJ 3300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4350. Contemporary Legal Issues in Law Enforcement.**

An in-depth study of recent developments in criminal law and procedure. Their effects upon the criminal justice agency official in society will be given special attention. Includes specific case studies with emphasis on analyzing factual situations and legal issues. Prerequisites: CJ 1310, and CJ 2310. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 4352. Contemporary Legal Issues in Corrections.**

A study of the developing body of law defining the rights and duties of persons confined in penal institutions with equal emphasis on legal issues associated with probationers, parolees, and similar status's within the corrections branch of the criminal justice system. Prerequisites: CJ 1310 and CJ 2355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**CJ 4362. Readings in Criminal Justice.**

An individualized readings course tailored to the academic and professional interests and needs of the student. Emphasis is placed on developing in-depth knowledge of selected criminal justice subjects through directed research. Repeatable for credit with different emphasis. (Permission of instructor is required for course registration.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CJ 4363. Independent Studies in Criminal Justice.**

Independent study and research on topics in criminal justice related to a student's primary area of interest. Work may include individual research, critical reviews or integration of existing body of knowledge. Course may be repeated with different emphasis once for credit with approval of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CJ 4365. Comparative Criminal Justice.**

A survey of the organizational, administrative and philosophical principles of criminal justice systems around the world. Prerequisites: CJ 1310 and CJ 2310 or CJ 2355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CJ 5101. Graduate Assistant Supervision.**

Prepares graduate student teaching and instructional assistants to perform effectively in diverse instructional settings and in their assigned instructional support roles. The course provides for regular and planned opportunities for continuing evaluation of instructional and assistive responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CJ 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5300. Foundation Studies in Criminal Justice.**

This course is designed for students who do not have a sufficient background in the foundations of criminal justice studies. Coursework will vary depending on the student's prior academic history. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**CJ 5310. Administration of Justice.**

Introduction to the study of crime; explanations of criminal behavior; typologies of criminal behavior; the criminal justice system; and social reaction to crime and the criminal justice system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5311. Administrative Law in Criminal Justice.**

Legal principles and doctrines applicable to state and federal criminal justice agencies delegated quasi-legislative and quasi-judicial authority by legislatures are studied and evaluated in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5315. Advanced Research Methods in Criminal Justice.**

The study of scientific research methods as used in the criminal justice system to include a review and critique of research on crime causation, law enforcement, courts, and corrections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5320. History and Philosophy of Justice.**

An exploration of historical approaches to social control of nonconforming behavior. The principal contributions of architects and theorists of systems of social justice are examined with emphasis on major Western European schools of thought. Special emphasis given to the development of the scientific method and its role in the contemporary system of justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5321. Current Legal Issues in Criminal Justice.**

Case law and legislation, both state and federal, which have contemporary impact on practices and policies of criminal justice agencies will be examined in this course. Topics may vary to include such matters as civil rights liability, substance abuse and the law, juvenile crime, organized crime, tactics of enforcement, unionization, and other legal issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5322. Police in Society.**

This course provides an in-depth assessment of policing and the various types of community crime control. Core topics include the history of police, organizational and individual police discretion, police culture, use of force, minorities and the police, community oriented policing, and police problem-solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5323. Special Operation Units.**

A course designed to acquaint students with basic principles of Special Operation Units (SOUs) within law enforcement, including the necessity for such units in the changing nature of policing communities. The principles of crisis management, the development of SOUs, selection/training/operationalizing of personnel and other strategic planning issues are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5324. Investigations.**

This course explores issues related to investigations. Topics covered include the history and state of investigations, investigative theory, interviewing, interrogation, polygraph, geographic profiling, serial crimes, and investigative failures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5325. Statistics for Criminal Justice.**

The study of basic and advanced descriptive and inferential statistics, with an emphasis on applications in the criminal justice system will be taught. Focus will be given to various multivariate statistical procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5330. Management Principles in Criminal Justice.**

The study of behavior in complex bureaucratic or administrative organizations with an emphasis on organizational behavior, group processes, and the managerial function. Concepts and practices of managing criminal justice agencies within the United States will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5335. Advanced Crime Theory.**

This course will develop and apply analytical skills surrounding a wide range of theoretical concepts, assumptions, propositions, and variables aimed at explaining crime-related outcomes. In the process, students will learn how social scientists empirically (i.e., quantitatively and qualitatively) access theory and how theory influences public policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5340. Personnel Practices in Criminal Justice.**

The study of personnel decisionmaking within the criminal justice agency. Topics emphasized will include recruitment and selection, promotion, training, performance evaluation, and human resource allocation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5350. Current Issues in Criminal Justice.**

An in-depth presentation and discussion of vital contemporary issues in criminal justice, including research, process, procedure, and substance. General issues addressed remain constant and specific emphasis will vary depending on changes in contemporary issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5355. Intelligence Gathering and Operational Issues As Applied to Terrorism and Counterterrorism Operation.**

This course provides an overview of the importance of intelligence gathering in the global and domestic war of terrorism, and critically examines issues involved with the gathering of intelligence, techniques for the gathering of intelligence, methods of collecting, collating, analyzing and disseminating intelligence, and a review of current terrorist threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5360. Independent Studies in Criminal Justice.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Criminal Justice. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5370. Professional Paper.**

Students in the non-thesis option will complete their professional paper while enrolled in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 5380A. Ethics and the Criminal Justice System.**

This special topics course will explore ethical issues that are faced by criminal justice professionals, basic ethical systems, and applications to dilemmas of criminal justice professionals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380C. Drugs in Society.**

This special topics course will explore issues related to the "War on Drugs." Topics covered include theories of addiction, legal and philosophical issues of government response to drug use, and treatment strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380F. Police Problem-Solving Practicum.**

This course applies contemporary police problem-solving tools and techniques (including SARA, COMPSTAT, crime mapping, intelligence led policing and computer enhanced problem solving) to real world problems with practicum problems derived from situations commonly facing police practitioners such as common law enforcement "problems" such as noise abatement, property offenses and traffic violations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380H. Police Problem Solving Methodologies.**

This course addresses police problem solving methodologies. The course covers the history, state, and theory of police problem solving. Emphasis is placed on using problem solving methodologies to address real issues facing the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380I. Race, Class, and Crime.**

This course addresses issues related to racial/ethnic minorities, socioeconomic status, crime trends, perceptions of crime and criminal behaviors. The social/historical constructions of race and class are covered as well as their intersectionality within the criminal justice system. Topics include racial/ethnic and socioeconomic disparities in offending, victimization, law enforcement and sentencing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380J. Sex Offender and the Criminal Justice System.**

This course explores sex offenders and the criminal justice system and the issues faced by criminal justice professionals. Recent trends in assessment tools, treatment approaches, and legal responses to sex offenders are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380L. Geospatial Intelligence and Geographic Profiling.**

This course addresses the use of geospatial intelligence and geographic profiling in the military and intelligence environments. The course covers the theory, concepts, methods, and analysis of human geographic information. Emphasis is placed on understanding how geospatial knowledge can inform decision making and action plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380M. Crime Analysis.**

This course teaches students step by step how to evaluate and synthesize local crime data and present it to others. It helps students identify local crime trends and cycles, develop usable crime maps, and to think of practical local police responses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 5380N. Applied Research Practicum.**

This course provides structured assistance to students who are preparing for significant independent research projects (i.e. Thesis, Professional Paper) by exposing them to the organizational tools, processes and techniques used by productive scholars. Ideally, students should expect to complete a viable research prospectus by the end of the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Credit/No Credit

**CJ 5380P. Quantitative Data Analysis.**

This course provides an introduction to quantitative data analysis. For the purposes of research and exploratory data analysis, topics include data construction and cleaning, variable coding, descriptive and inferential statistics, summary measures, and visual presentations of data. This course makes extensive use of statistical software

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 5399A. Thesis.**

This course represents a student's initial thesis enrollment. Credit is not awarded until student has completed the thesis in Criminal Justice 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7199. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7210. Proseminar.**

A course designed to introduce students to the department and ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Prerequisite: first-year criminal justice doctoral students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7299. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7301. Instructional Assistant Supervision.**

This course prepares doctoral students employed as research or teaching assistants to perform effectively in diverse instructional settings. The course provides for regular and planned opportunities for continuing evaluation of students. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CJ 7310. Philosophy of Law, Justice, and Social Control.**

A current, thorough, and comprehensive review of the criminal justice system focused on how the system functions, and its current needs and future trends. Students submit extensive critiques and participate in panel discussions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7311. Advanced Criminological Theory.**

An overview of the major criminological paradigms is presented focusing on the causes of crime and deviant behavior. The course includes a discussion of criminological theories from a philosophy of science perspective focusing on such issues as theory construction, theoretical integration, and the formal evaluation of theory and policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7312. Criminal Justice Ethics, Administration, and Public Policy.**

This course addresses the role of ethics in criminal justice organizations and policymaking. Topics include the moral philosophy of criminal justice, the role of natural and constitutional law, codes of ethics and ethical review systems, and ethical decision-making by criminal justice professionals with attention to training issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7313. Race and Ethnicity in Crime and Criminal Justice.**

An exploration of how issues related to racial and ethnic minorities and criminal behaviors impact criminal justice reactions. Topics include racial disparities related to law enforcement and sentencing, and policy implications related to policing, probation, pre-sentencing and post-release issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7320. Quantitative Research Methods.**

A course that demonstrates the practical aspects of conducting criminal justice research that uses quantitative methodologies and design. Topics include the philosophy of science; research ethics; methodological designs in establishing causation; nonexperimental/descriptive research; sampling techniques; secondary data sources and data gathering techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7321. Linear Regression for Criminal Justice Research.**

Instruction on the use of advanced linear modeling techniques in criminal justice research is addressed. After completing this course, students should be able to evaluate quantitative research articles in the major criminal justice journals and be prepared to complete a major quantitative research project of their own

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7322. Advanced Research for Planning and Evaluation.**

An introduction to evaluation and research design methodologies, assessment techniques including modeling and case studies, agency management issues, and on-going policy implications. Course gives students an understanding of the principles and techniques commonly used to evaluate the effectiveness and efficiency of criminal justice interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7330. Qualitative Research Methods.**

A discussion of the methods and techniques used for achieving interpretable qualitative results in social research. Topics covered include ethnography, focus groups, in-depth interviewing and case studies. Students will be trained in inductive reasoning and coordinating qualitative with quantitative methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7331. Law and Behavioral Science.**

A review of the issues addressed in the application of the behavioral sciences to the criminal law system. Topics include criminal sanctions and diminished responsibility, civil commitment, victimology, psychology in the courtroom, the role of media, drugs, and alcohol to violence, and how the justice system reacts to violent offenders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7332. Law and Public Policy.**

An examination of the intersections between law and public policy, its effect on criminal justice administration, its role in a free society and the function of law as a tool of social change. Topics include affirmative action, race, gender, privacy rights, and the process of criminalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7333. Legal and Legislative Research.**

This course presents the methods of research used in the legal system. Students learn to locate and interpret constitutional, statutory and case law, use secondary sources such as scholarly legal treatises, and apply research techniques using both print and electronic sources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7334. Organizational Theory.**

A critical examination of organizational theories with applications to criminal justice where students analyze the developmental state of organizational theory, including historical derivations and the implications of various theoretical paradigms for understanding the functional quality of criminal justice organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7335. Criminal Justice Leadership and Management.**

A course focused on identifying problems and solutions in criminal justice management. The case study method and current literature provide a mixture of practical and educational experiences on how leadership styles, human resources, and the organizational environment impact management decisions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7336. Survey Research Methods for Criminal Justice.**

This course addresses the procedures and techniques used to create social surveys including question formulation, metrics, and question scaling. Students learn how to prepare face-to-face, telephone, and mail surveys, and are trained in sampling procedures related to survey administration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CJ 7337. Comparative Criminal Justice Systems, Philosophies, and Public Policy.**

A comprehensive study of law, including common, Roman, socialist, and religion-based, including a critical assessment of the major organizational, administrative, and philosophical principles governing the operation of criminal justice systems worldwide, with special attention to international criminal law and human rights

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CJ 7350A. Forecasting, Trend Analysis, and Data Interpretation.**

A review of quantitative approaches to public policy analysis, the diverse conceptions of the goals and objectives that should be served by policy, and the appropriate role of the policy analyst. Policy consequences are traced to indirect and subtle incentives and disincentives

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350B. Academic Scholarship and Communication.**

A course on conducting academic research, interpreting results and how to prepare manuscripts for publication in refereed journals. Included is a survey of the audiences, topical focus, and submission requirements of the major criminal justice, criminology, and law publications, along with specialized knowledge on achieving success in the scholarship environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350C. Qualitative Data Collection, Coding and Analysis.**

This course takes a structured approach to understanding and implementing the various information collection methods used in qualitative research, including formatting the information for coding, coding schemes, and information interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350D. Ethnography of Criminal Justice.**

A course on the procedures and techniques required to conduct ethnography, fieldwork, in Criminal Justice. Students examine the culture, subculture, and groups within specific components of the criminal justice system in order to develop a deep ethnographic description. Prerequisite: CJ 7330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350E. Discrete Multivariate Models.**

This course focuses on regression models for discrete outcome variables, sometimes called limited or categorical dependent variables. Topics include maximum likelihood estimation, binary and multinomial logistic models and negative binomial models. Prerequisite: CJ 7321 or its equivalent or approval/permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350F. Environmental Criminology.**

Crime distributes unevenly in space/time. As such, the course examines such questions as (1) What places are dangerous? (2) Why do we study specific crime types? (3) Where do crime types concentrate? (4) Where do offenders go in their normal activities? (5) What are the temporal patterns for crime? Prerequisite: CJ 7311 or its equivalent or approval/permission of both the instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350G. Seminar in Macro Criminology.**

This course has a macro focus, examining criminological theory and research that takes cities, geographical regions, states, and nations as the units of comparison. The importance and relevance of macro criminology for understanding the causes of crime and key criminal justice issues, such as police resources, are explored in depth. Prerequisite: CJ 7311 or its equivalent or permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350I. Introduction to Structural Equation Modeling.**

The course provides an introduction to structural equation modeling, which is sometimes called mean and covariance structure analysis or latent variable analysis. Topics include recursive and non-recursive models, path analysis, measurement models, and factor analysis. Prerequisite: CJ 7321 or its equivalent or approval/permission of both the Instructor and the Doctoral Coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350J. Advanced Methodological Paradigms in Criminal Justice.**

This course examines the assumptions, foundations, and implications of the methodological paradigms used in criminal justice research. The dominant paradigms are closely examined and alternatives are explored. Prerequisites: CJ 7311, CJ 7320, CJ 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350K. Criminal Justice Forecasting and Policy Analysis.**

This course examines the inputs and outputs of criminal justice programs. It covers forecasting methods using statistical bootstrapping techniques including line fitting methods, moving averages, cohort propagation matrixes, and systems simulations. Prerequisites: Graduate statistics and a working knowledge of Excel and SPSS

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**CJ 7350L. Sex Offenders: Theory, Research & Policy.**

This course will focus on application of theory to explain sexual offenses, research design issues related to researching this salient population of offenders (e.g., ethical issues, gaining IRB approval, research design limitations, social desirability problems in self-report data, and examining available data sources), and examining policy related issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**CJ 7350M. Applied Statistics and Quantitative Data Analysis.**

This is a course in statistics and data analysis for the purposes of original quantitative research. Topics include descriptive statistical inference for single and multivariable analysis, and principles underlying the techniques. This course makes extensive use of statistics software via command-line interface. No more than elementary algebra is assumed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**CJ 7360. Independent Study.**

Students will work closely with a particular doctoral faculty member and develop in-depth knowledge in a specific topic area of criminal justice. Topics vary according to a student's program needs. Repeatable once for credit with different emphasis. Prerequisite: Approval of the Instructor and the Doctoral Coordinator in Criminal Justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7399. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7599. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7699. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CJ 7999. Dissertation.**

Original research and writing in criminal justice to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester for at least three dissertation hours. Graded on credit (CR), progress (PR), no-credit, (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 3300. Middle School Curriculum and Instruction.**

Overview of developmentally appropriate curriculum adhering to state and national standards for grades 4-8. Includes the application of learning theory in a safe classroom environment with a focus on cooperative learning, direct instruction, discovery learning, technology, and learner-centered instruction. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CI 3310. Public Education in a Multicultural Society.**

Course utilizes historical, sociocultural, and political lenses to provide an overview of public schooling as a complex system within a multicultural society. Key concepts include: educational philosophy, legal and policy issues, curriculum and instruction, equity, school-community connections, and teachers as change agents. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 3315. Human Development: Learning and Being in Social Contexts.**

Drawing from psychological, sociological, anthropological, and historical traditions, this course explores human development, learning theories, identity issues, and multicultural education, especially as these pertain to second-language learners. Implications for classrooms and teaching are included. Prerequisite: 2.75 overall GPA. Junior Classification required. Must be declared in a degree program that leads to teacher certification. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CI 3322. The Design and Application of the EC-6 Curriculum.**

Course focuses on design and application of curricula including content, instructional methodologies and assessment. Foundational theories of human development and learning will be used as students focus on the organization of content, instructional strategies, classroom environment, utilization of materials, and assessment. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315; RDG 4320; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**CI 3325. Adolescent Growth and Development.**

Study of biological, cognitive, and psychological theories and processes of adolescence. Prepares prospective teachers to understand abilities, behaviors, and needs of learners. Roles of family, peer groups, and culture examined with the aid of contemporary adolescent literature. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Curriculum and Instruction (CI)

**CI 3332. Foundations of Bilingual and ESL Education.**

This course examines the rationale, history, and philosophy of bilingual and ESL education and develops students' understanding of the cultural and psychological influences that mediate the learning process.

Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, ECE 4300; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 3338. Social Studies in the Elementary and Middle School.**

The course provides learner-centered approaches to social studies knowledge, instruction, equity, communication, and professional development and prepares educators with strong foundations for powerful social studies teaching and learning practices including: (a) deep understanding/appreciation, (b) increased awareness of non-traditional approaches, (c) practical methods and applications, and (d) daily integration into teaching. Prerequisites: Junior Classification; 2.75 overall GPA. Restriction: Students majoring in Interdisciplinary Studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4300. Middle Level Philosophy and Schooling.**

Physical, social, emotional, cognitive, and moral characteristics of young adolescents in contexts of family, community, school, society. History and philosophy of middle school as a developmentally appropriate environment for young adolescents. Continued study of instruction that is affectively and cognitively appropriate for young adolescents.

Prerequisites: Admission to the Teacher Preparation Program; RDG 4310; RDG 3315; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**CI 4325. Classroom Management and Teacher-Student Relationships.**

Course will focus on classroom management theories and models. Personal philosophy, beliefs, and style of teaching will be examined as they relate to the various methods of classroom management, student discipline, and teacher-student relationships. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, CI 3332, CI 4360; RDG 4320; ECE 4300, ECE 4310, ECE 4352; Co-requisites: RDG 3315, RDG 3321; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4332. Secondary Teaching: Curriculum and Technology.**

This course investigates secondary curriculum, its history, organization, development, and representation in instructional materials. Students learn how curriculum is decided, impacted, and assessed, and the role of technology in curriculum. Topics include local, state, and national standards, trends, and roles of culture and technology in teaching and learning. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4343. Instructional Strategies for the Secondary Teacher.**

This course focuses on the study of models for instruction, with attention to assessment and classroom management. Students develop and practice strategies for building classroom communities, teaching all learners, and integrating technology into instruction. The focus is on meeting the needs of individual learners while maintaining academic rigor. Prerequisites: Admission to the Teacher Preparation Program; CI 3325 and CI 4332; 2.75 Overall GPA; Corequisites: CI 4370 and RDG 3323

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4350. Mathematics in the Integrated Elementary Curriculum.**

Course provides an in-depth study of the mathematics content and methodology derived from principles of learning and research. Primary focus will be on the development of mathematics understanding and relevant applications rather than manipulation of numbers without context, purpose, or concepts. Students will develop the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and develop techniques for evaluating pupil progress within a field-based environment. Prerequisites: MATH MATH 1315, MATH 1319, MATH 2417, MATH 2471, or MATH 2472; MATH 2311 and MATH 2312. Grades of "C" or higher must be earned in all prerequisites. 2.75 overall GPA required. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4355. Science in Elementary Education.**

Course provides an overview of science standards and content, research-based science pedagogy, and the scientific process skills required for a developmentally appropriate, inquiry-driven science curriculum that facilitates the development of scientific literacy for all students, including second language learners. Prerequisites: PHYS 1310 or PHYS 1315 or PHYS 1410; and PHYS 1320 or PHYS 1325 or PHYS 1420; and PHYS 1110 or PHYS 1115 or PHYS 1125; and BIO 1320 or BIO 1430 or BIO 1330 or BIO 1431 or BIO 1331 or BIO 1421. Grades of "C" or higher must be earned in all prerequisites. 2.75 overall GPA required. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4360. Methods and Materials for Teaching ESL in the Content.**

This course addresses content, methods, and materials of elementary ESL classroom instruction, including curricula, strategies, and materials for meeting the needs of English language learners in all academic content areas. Prerequisites: Admission to the Teacher Preparation Program; ECE 4300 (for ESL Generalists); CI 3332, CI 4361 (for Bilingual Generalists); 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**CI 4361. Psychological Foundations of Bilingual Education.**

The study of the educational foundation and development of bilingual education. The evaluation of achievement and learning ability of the Limited English Proficient (LEP) pupil will be examined. The psychological development of the LEP pupil and relationship of cultural values, socialization practices and learning styles will be analyzed. Prerequisites: Admission to the Teacher Preparation Program; Junior classification; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4362. The Elementary Bilingual Content Areas.**

A study of the mathematics, science, social studies, and language arts curriculum of the bilingual elementary classroom. Prerequisites: Admission to the Teacher Preparation Program; CI 3332, CI 4361, and 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4365. Biliteracy for Bilingual Learners.**

This course targets the dynamic, reciprocal process of literacy development in Spanish and English for bilingual learners. Theories, instructional methods and strategies, texts, and materials will be examined through an integrated approach that considers sociocultural, cognitive, linguistic, and political factors. The course will be taught in both Spanish and English. Prerequisites: Junior standing or higher; Admission to the Teacher Preparation Program; 2.75 Overall GPA; CI 3332, CI 4362

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4370. Classroom Management, Ethics, and Legal Issues in Secondary Teaching.**

This course focuses on the development of an appropriate classroom management system based on current theory and research, analysis of legal and ethical issues as they relate to classroom teachers and students, and field experiences in a variety of secondary classroom environments. Prerequisites: Admission to the Teacher Preparation Program; CI 3325 and CI 4332; 2.75 Overall GPA; Corequisites: CI 4343 and RDG 3323

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 4378. Problems in Education.**

Individual problems related to areas of selected study for the undergraduate student, designed to meet individual differences for the purpose of certification. A letter following the course title on the permanent record will indicate the area of emphasis according to this code: (i) Elementary, (j) Secondary, and (l) Bilingual. Repeatable for credit with different emphasis. Prerequisite: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5302. Practical Statistics for Educators.**

This course uses graphical and numerical techniques to explore school related data, characterize patterns, and describe departures from patterns. The study of statistics will allow teachers to critically evaluate students, their teaching, and the results of educational research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5303. Teaching Math in the Elementary School.**

This course is an in-depth study of the mathematics content and methodology derived from principles of learning and research. The course will explore the skills needed in cooperative planning, provide methods of organizing mathematical principles into lessons for pupils, and examine techniques for evaluating pupil progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5304. Science, Technology, Engineering, and Mathematics for Elementary Teachers.**

The importance of problem solving in elementary mathematics and science is explored. Class activities emphasize the role of mathematics in collecting, recording, analyzing, and communicating scientific observations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5305. Methods in Geometry for Elementary Math Teachers.**

This course focuses on study of congruency, similarity, transformations, coordinate geometry, and measurement using cognitively guided instruction. Van Hiele's model will be used, and the importance of modeling relationships with and without technology will be taught. This course is designed for elementary school teachers with a mathematics specialization. Justification: This course addresses competencies required for this certificate as delineated by the Texas Education Agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**CI 5306. Evaluative Techniques for the Classroom Teacher.**

An in-depth study of the objectives of evaluation, teacher-made tests, interpretation of standardized test results, self-evaluation, program evaluation, school evaluation, socio-metric techniques and their use, and reporting to parents. Prerequisites: CI 5390, CI 5314, CI 5333, CI 5363, CI 5370, RDG 5324, and an Overall GPA of 3.0

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5307. Probability and Statistics Methods for Elementary Math Teachers.**

This course for elementary math teachers covers graphical and numerical techniques to explore data and describe patterns and departures from patterns using cognitively guided instruction. The course focuses on statistical inference, making and evaluating predictions, and designing problems to solve using the theory of probability and its relationship to sampling

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5308. Introduction to Gifted/Talented Education.**

An introduction to gifted/talented education that covers: analysis of conceptions of giftedness and gifted/talented education; examination of policies related to gifted/talented education; survey of assessment practices, pedagogy, program options, and equity issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5309. Talent Development.**

This course examines theories, research and pedagogy related to talent development throughout the life course. Topics include ways to support expertise development, critical youth development and becoming

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5310. Creativity: Theories, Research, and Applications.**

A multidisciplinary exploration of creativity theories, research, and applications. Implications of current theory and research for creative thinking and innovation. Designed for Master's degree students in Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5311. Practicum in Talent Development.**

This course is a capstone course in which students develop and apply knowledge and skills in talent development in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisites: CI 5310; CI 5308 or CI 5309; CI 5319 or CI 5383; and one of the following: CI 5324, CI 5359, or CI 5368

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5312. Elementary Language Arts: Current Trends.**

A study of current trends in methods of instruction in the language arts, a study of research findings, and an examination of selected media and materials. Also identifies the relation of language arts to other aspects of the elementary school curriculum and the most effective diagnostic techniques for the language arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5313. Research Seminar in Human Growth and Development.**

Training for teachers (elementary or secondary), counselors, supervisors, and administrators to improve their professional effectiveness through the direct study of individual students according to an organizing framework of scientific knowledge of human growth and development; emphasis on the physical processes, the affective processes, and peer relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5314. Human Growth and Development II.**

For teachers (elementary or secondary), counselors, supervisors, and administrators to increase their understanding of the motivation, the developmental level, and the abilities of individual students by a direct study of individuals in the classroom; emphasis on increasing scientific knowledge of culture, self-development, and self-adjustive areas of development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5315. Coaching Skills for Elementary Math Mentors.**

This course focuses on using guidance and feedback to help teachers improve math instruction. Specific attention is given to roles and responsibilities of math content coaches, including their function in coaching a professional learning community, and the roles of math mentors in helping new and experienced teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5316. Problem-Solving, Reasoning, and Modeling for Elementary Math Teachers.**

This course examines numerical reasoning and problem-solving with particular attention to heuristics, strategies, and modeling. Students will learn methods for mental computation and computational estimation, and algorithmic processes. The course is for elementary math teachers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5317. Teaching Strategies for Elementary Teachers: Alternative Models.**

Alternative teaching models based on learning theory. Course designed to assist the elementary teacher in selecting appropriate strategies for meeting student learning styles and to broaden the scope of elementary school methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5319. Social, Emotional, and Cultural Contexts of Advanced Development.**

This course explores social, emotional, and cultural context issues related to precociousness, creativity, and high performance in children and adolescents, with an emphasis on practices in school environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5322. Middle School Instructional Strategies and Practices.**

Description and analysis of curriculum, sources, organization, and development for middle level students. Preparation of developmentally responsive curriculum including direct, inquiry, cooperative learning, and constructivist strategies that adhere to state and national standards and assessments. Overview of expectations, routines, and procedures for classroom management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5323. Middle School Philosophy and Learning.**

Middle school philosophy focusing on young adolescents' cognitive, emotional, social, and physical needs. Instructional delivery strategies and assessments that are developmentally responsive and adhere to state and national standards. Positive learning environments that include family and community collaboration. Philosophical and historical foundations of the middle school movement. Prerequisite: CI 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5324. Systems for Advanced Academics and Talent Development.**

This course examines systems, organizational models, strategies and assessment approaches that facilitate advanced academics and talent development processes in K-12 school settings. Prerequisite: CI 5308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5326. Curriculum & Management in the Elementary & Middle School.**

Course deals with principles of curriculum development, the K-8 curriculum, planning various types of lessons and units across the curriculum in grades K-8, integrating instruction across the curriculum, and organizing and managing materials, classroom activities, and student behavior. Students will prepare curriculum materials and units

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5327. Principles and Practices in the Elementary School.**

Defines and interprets the newer trends in elementary school practices; the philosophy and objectives of the elementary school, and procedures for implementing these objectives; classroom organization and management; the principles of unified learning as applied to school experiences, procedures for planning and developing experiences, meeting individual needs, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5328. Elementary Social Studies: Curriculum Problems.**

Development and purposes of the social studies curriculum; contributions of the social sciences to the social studies curriculum; relation of the social studies to the total elementary program; curriculum construction, supervision, and evaluation; current issues and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5329. The Elementary School Science Curriculum.**

An intensive study of the philosophies of discovery and inquiry as they relate to the elementary school science curriculum; laboratory experiences related to the objectives, content, methods, and materials of selected innovative programs. Examples: Inquiry Development Program, Elementary Science Study, Science-A Process Approach, Introductory Science Study, Science Curriculum Improvement Study, Minnesota Mathematics, and Science Teaching Project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5330. Multicultural Teaching and Learning.**

Course topics include multicultural education theory and principles; research; current issues and trends; culturally responsive curriculum, teaching methods and materials, and teaching English language learners. Students will explore their cultures and other cultures to develop knowledge and sensitivity needed to teach in a multicultural multilingual society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5332. Multicultural Teaching and Learning of Mathematics.**

This course will acquaint students with current learning theories that conceptualize interaction and participation as crucial to learning mathematics in contexts that include English Language Learners (ELLs). Students will make practical/meaningful connections to classroom instruction by designing learning environments that include tools to support ELLs in learning mathematics with understanding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5333. The Secondary Curriculum.**

A brief history of curriculum development with special emphasis on the Texas curriculum program; basic principles and techniques of curriculum construction and implementation; aims and purposes of the curriculum as a function in perpetuating and improving democratic ideals; and attention to significant research in curriculum development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5336. Methods and Materials for Teaching English as a Second Language.**

Identification and use of English as a Second Language (ESL) material and teaching strategies for teaching ESL as an integrated process including first and second language acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5337. Language Acquisition and Development.**

This course addresses the foundations for first and second language learning acquisition. Central concepts in child language development with special emphasis on language-minority issues will be presented and discussed. Prerequisite: CI 5336

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5339. Project-Based Instruction.**

This course will examine a theory driven perspective accounting for how adolescents and young adults learn and how project-based instruction (PBI) may be our best choice for bridging the gap between theory and practice. Students will observe secondary PBI classes, participate in a project and design a PBI unit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5359. Curriculum for Depth and Challenge.**

This advanced course focuses on the understanding and design of curricula with depth and challenge for K-12 students who would benefit from advanced content. Prerequisites: CI 5309, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**CI 5363. Strategies for Improving Secondary Teaching.**

Analysis of teaching concepts as they apply to the development and improvement of teaching strategies appropriate for implementing selected objectives and content by the secondary teacher. Micro teaching sessions, including video tape recording, will be required.

Prerequisite: CI 5333 and EDTC 5310 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5365. Biliteracy Development in the Bilingual Education Classrooms.**

This course focuses on current research and practice in literacy development in Spanish and English as a second language for bilingual students. Contexts framed by sociocultural, cognitive, and linguistic factors will be considered. The course will be taught in English and Spanish. Prerequisites: CI 5337; CI 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5367. Dual Language Immersion Methods.**

This course focuses on current research and effective instructional methodology that shape two-way and one-way dual language curricula and instruction in bilingual education. Students will discuss literacy instruction through Spanish socio-linguistic and cognitive perspectives. The course will be taught in Spanish and English; academic Spanish proficiency is expected. Prerequisites: CI 5387, CI 5337

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5368. The Politics and Creativity of Being and Becoming.**

This course examines how some aspects of education may be inherently unpredictable, immeasurable, and not able to be generalized across contexts nor produced on demand, but still are fundamentally essential to education. Influences of societal trends, discourses, and school practices on political and creative aspects of becoming are analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5370. Classroom Management, Discipline, and Legal Issues.**

Course topics include the development of an appropriate management and discipline system based on in-depth study of current theory and research. Students will study Texas School Law as it relates to classroom teachers and students. Some field work, school and state agency visitation may be required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5372. Philosophical Foundations of Education.**

An overview of the field of educational philosophy as related to the spectrum of human events and the educative process in particular. Designed for master's degree students without previous graduate work in philosophy or philosophy of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5374. Bilingual/ESL Content Area Instruction.**

Students study the integration of native language instruction and English as a Second Language (ESL) instruction in the academic content areas (mathematics, social sciences, and language arts) for English Language Learners (ELL). Prerequisites: CI 5387 and CI 5336. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**CI 5375. Problems in Elementary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5376. Problems in Secondary Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give secondary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5377. Problems in Bilingual Education.**

A workshop in innovative techniques or materials offered either on campus or off campus in approved sites. Designed to give elementary classroom teachers college credit for in-service type training; course gives an opportunity for teachers to upgrade their skills and knowledge

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5378. Problems in Education.**

Individual problems not related to Thesis or Research Problems. Designed to place emphasis on selected areas of study. A number following the course title on the permanent record will indicate the area of emphasis according to this code (2) counseling (7) Supervision (8) elementary (9) secondary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5381. Advanced Creativity, Curiosity, and Interest.**

This course is an advanced examination of issues and research in creativity, curiosity, and interest. Implications for education are explored.

Prerequisite: CI 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5383. Mentoring Across the Life Span.**

This course examines types and processes of mentoring across the life span, with emphases on mentoring students and teachers in K-16 educational contexts. Talent development purposes for mentoring are included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5387. Bilingual Education: Principles and Practices.**

A study of the current trends in bilingual education and elementary school practices, the philosophy and objectives of the bilingual elementary school program, classroom organization and management, and procedures for meeting individual needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5388. The Politics of Language.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5389. Action Research for Practitioners.**

This course prepares practicing teachers to conduct action research in educational settings. Students will design and implement an action research project based on a self-selected topic. Prerequisites: CI 5390, CI 5302, plus 6 credit hours in the major, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5390. Research Seminar in Education.**

Study of problems in the education of children in the schools. Topics include basic research procedures needed in the preparation of thesis or other research reports and development or skill in reading, analysis, and application of educational and behavioral research. A research paper is required of each student. CI 5390 must be completed prior to the semester of the comprehensive exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Curriculum and Instruction 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**CI 7101. Introduction to the Research Experience.**

This course is designed to introduce students to the department and to the ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Students must enroll in the course for three semesters before dissertation

**1 Credit Hour. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7302. Research Methods and Measurement in Education.**

This course provides a comprehensive introduction to research methods and fundamental measurement issues in education and the behavioral sciences. The course focuses on measurement, research design, and statistical modeling/analysis in non-experimental and experimental research. Concurrent enrollment allowed in CI 7351 and CI 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7303. Educational and Psychological Measurement and Assessment.**

Philosophical and empirical foundations of measurement, assessment, testing, and evaluation. Topics include philosophical and mathematical foundations in research; empirical levels and measurement description; test construction; observational rating scales; measurement interpretation; social, legal, and ethical implications; item analysis/refinement for scale performance; reliability and validity evidence; and standardized and placement tests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7310. Teaching in College.**

Teaching strategies for teaching/instructional assistants focused on creating syllabi, adapting to diverse student populations, collaborating with colleagues and staff; implementing active learning strategies; fostering assigned reading; assessing learning; and integrating technology. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**CI 7326. Grant Development and Management.**

Course focuses on developing competitive grant proposals and understanding grant management resources. Strategies will encompass locating funding sources, evaluating proposals, developing proposals and budgets, and methods of meeting accountability requirements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7351. Beginning Quantitative Research Design and Analysis.**

This course introduces students to quantitative research design and analysis. Topics include descriptive statistics; sampling techniques; statistical inference, including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Departmental Approval required. Prerequisite or concurrent enrollment in: CI 7302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**CI 7352. Beginning Qualitative Design and Analysis.**

This course introduces students to the qualitative paradigm. Topics include distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisite: CI 7302 or can be taken concurrently. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**CI 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on intermediate quantitative research design and statistical methods of data analysis related to problems in education, psychology, sociology, and biological sciences. The general linear model based univariate and selected multivariate statistical techniques are examined including theory/purpose, logic, practical implications, and interpretation of various analytic techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**CI 7354. Intermediate Qualitative Design and Analysis.**

This course focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**CI 7355. Mixed Methods in Research and Evaluation.**

This course will cover mixed methods research designs that can be used in the evaluation of educational interventions and programs. Topics include mixed methods research designs; program evaluation models; quantitative and qualitative data analysis and interpretation; reading mixed methods research articles; and writing mixed methods research proposals and evaluation reports. Prerequisite: ED 7351; ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Intended for those versed in current paradigmatic and epistemological states of human inquiry, presenting an opportunity to design a research project and to address the major issues of a research career. Prerequisites: ED 7352, ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**CI 7360. Designing Educational Research.**

Students identify problems in developmental education and develop a strategic proposal to apply to these problems. Students, then, create an evaluation plan to assess the implementation of their proposal. Students develop skills in critiquing research reports and in synthesizing research from developmental education. Prerequisite: ED 7353 or ED 7354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Department of Curriculum and Instruction. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7386. Directed Research.**

Students will participate in a doctoral faculty member's research team assisting in completing a research study from identifying a researchable topic, reviewing the literature, producing research questions, designing research and methodology, analyzing results, drawing conclusions and implications, and producing a publishable article draft. This course is repeatable once. Prerequisite: Intermediate level research classes and four specialization courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**CI 7389A. Topics in Instructional Technology.**

This topic offers an in-depth study of systematic instructional design emphasizing the selection and use of appropriate media for delivering instruction to maximize student learning. Special emphasis in this topic is on the leader's role in influencing the use of technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

## Dance (DAN)

**DAN 1111. Freshman Dance Seminar.**

Designed to orient incoming dance majors to several dance topics: dance appreciation, nutrition, time management, and career opportunities in dance. Also includes the practical component of assisting as crew members for dance productions

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**DAN 1114. Topics in Fitness Activities: Pilates.**

Pilates exercise work is designed as a rehabilitative and physical improvement technique (body therapy) that is especially useful for dancers who have sustained injuries or want to avoid common dance injuries. Prerequisites: Intermediate level dance

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 1160. Beginning Jazz.**

Beginning levels of jazz dance technique including basic jazz walks and weight shifts, isolations, stretches, and dance combinations. Combinations are designed to challenge and enhance the students' knowledge of the various styles and "schools" of jazz dance and to develop performance and choreographic abilities in these styles. This course is also offered as PFW 1180A

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1147

**DAN 1170. Beginning Recreational Dance.**

Recreational dance includes international folk dance, square dance, and ballroom dance. Students will learn specific dances from each of these styles and gain an understanding and appreciation of the role of dance in societies and culture. This course provides an opportunity for students to explore the elements of dance as a way to discover movement as an expressive medium. This course is also offered as PFW 1180J

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1128

**DAN 1180. Beginning Ballet.**

Introduction to the basic technique and steps of the classical ballet. Basic barre exercises and basic positions and traveling steps of the ballet movement vocabulary will be taught and practiced for mastery, singly and in combination. Students are expected to gain an understanding of ballet as a performing art through historical as well as practical experience. May be repeated once for credit

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DANC 1141

**DAN 1190. Beginning Modern Dance.**

Basic modern dance technique and movement vocabulary are introduced and practiced for mastery. Biomechanical principles and the elements of dance are introduced. Elementary choreographic experiences will be included. This course is also offered as PFW 1180G

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1145

**DAN 2161. Intermediate Jazz.**

(DANC 1148) Intermediate levels of Jazz dance techniques include complex weight shifts, syncopations, coordinations, and isolation techniques. Exercise and floor combinations are designed to challenge and improve previously obtained motor skills and to enhance the knowledge of correct mechanics of dance as a performing art. Prerequisite: DAN 1160 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 2181. Intermediate Ballet.**

(DANC 1142) Intermediate level ballet barre, center, position, and transitional patterns of the classical ballet will be introduced and practiced for mastery. Emphasis will be on quick mastery of simple to complex combinations of those patterns plus an understanding of the biomechanical basis of each pattern. Restricted to Dance majors only. May be repeated once for credit. Prerequisite: DAN 1180 with a grade of A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 2191. Intermediate Modern Dance.**

(DANC 1146) Intermediate modern dance skills are introduced and practiced for mastery. Students are expected to learn and perform combinations with skill and artistry, demonstrating a working knowledge of biomechanics and performance techniques. Application of movement principles is emphasized. Prerequisite: DAN 1190 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 2201. Dance Composition I.**

This course utilizes improvisation as a creative dance technique in designing new movements for choreography. Using current trends in improvisational materials, this course places emphasis on designing original movement while facilitating students in maintaining aesthetic forms and developing artistic discrimination. Prerequisite: DAN 1190

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 2202. Dance Composition II.**

Basic principles of dance composition will be applied to solo choreography emphasizing skilled use of space, dynamics, and rhythm to build artistic compositions. Exploration of crafting materials in authentic expression will be facilitated. Prerequisite: DAN 1190 or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 2210. Contact Improvisation.**

Improvisational movement techniques that explore weight-sharing, non-verbal communication, sensory awareness, risk-taking, and physical and emotional trust. Students will gain the physical and perceptual skills to enhance performance in all areas of creative expression. Principles will be applied through movement training, discussion, and performance. Prerequisite: DAN 2191

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DANC 1201

**DAN 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, MU 2313, or TH 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315



**DAN 2365. Creative Movement for Children.**

Emphasis on rhythmical movement exploration and using creative movement as both an art form and as a teaching tool. Through class activities, students will develop effective facilitator skills and incorporate innovative strategies for teaching traditional material in non-traditional ways. Prerequisite: DAN 1190

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**DAN 3151. Musical Theatre Tap I.**

This class covers the basic steps of tap technique. Students learn coordination, rhythmic variations, and performance skills through a series of tap combinations. Prerequisite: DAN 2161

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3152. Musical Theatre Tap II.**

This class expands on skills covered in Musical Theater Tap I. Basic steps are perfected and more difficult steps and combinations are learned. Longer sequences set to musical theatre music are mastered, and attention is given to ensemble work, rhythmic variations, and performance skills. Prerequisite: DAN 3151

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3162. Advanced Jazz.**

Advanced levels of jazz dance technique include more complex coordinations and combinations requiring increased levels of technique, strength and flexibility. Emphasis is on developing ability to quickly master increasingly challenging choreography while continuing to develop new skills. There is a continuing emphasis on biomechanics and choreography. May be repeated once for credit. Prerequisite: DAN 2161 or equivalent

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3171. Musical Theatre Dance I.**

This course involves the study of dance as it applies to musical theatre performance. It covers some of the styles that make up musical theatre including character dancing, the Charleston, and various ballroom dances. Prerequisite: DAN 2181

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3172. Musical Theatre Dance II.**

This course involves the study of dance, movement, and staging for musical theatre and culminates in student choreographed/staged works from a variety of musical theatre productions. It includes strategies for learning and performing dance combinations as they occur in a professional dance audition. Prerequisite: DAN 3171

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3182. Advanced Ballet.**

This course is an introduction of the advanced concepts and principles of classical ballet. The class is designed to develop proper alignment, strength, flexibility, coordination and musicality. Restricted to Dance Majors. May be repeated once for credit. Prerequisite: DAN 2181 with a grade of A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3292. Advanced Modern Dance.**

Advanced modern dance skills are introduced and practiced for mastery. Students are expected to learn and perform increasingly complex combinations with skill and artistry, demonstrating a mastery of biomechanical principles and performance. Dance majors and minors are expected to develop a high level of skill in this dance style as the primary dance form for their teaching and performing preparation. Repeatable for credit with different emphasis. Prerequisite: DAN 2191 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3313. Introduction to Fine Arts.**

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3330. Dance Curriculum Development.**

Course builds on a requisite knowledge of basic educational theory and lesson plan structure with an emphasis on developing and implementing a successful Dance curriculum. Practical and effective strategies for teaching middle school and high school Dance will be examined.

Prerequisites: DAN 1170, DAN 1180, and DAN 1190

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 3332. Dance Concert Production.**

Develop skills required to plan and execute dance concerts in standard educational institutions, as well as professional venues. Orientation to technical theatre and design concepts for performance: lighting, stage management, make-up, costuming, and music selection. Students will also become acquainted with strategies for programming, marketing, publicity, and fund-raising for dance concerts. Prerequisite: Junior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3340. Dance Touring Ensemble.**

Learning and performing dances from the repertory of current faculty members, artists-in-residence, and from the repertory of historic modern dancers. Dances performed locally and regionally. Enrollment by audition only. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**DAN 3345. Video Dance.**

The class is geared particularly towards dance makers and principally towards dance majors. The central objective is to enable the participants to create choreographic work for the camera, through the analysis and discussions of a selection of screenings as well as through hands-on work. Collaboration and cooperation is encouraged throughout the process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3350. Dance Team Directing.**

Develop skills required to direct a performing dance team. Topics include choreography, administrative organization, public relations and communication skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 3365. Rhythmic Structure of Movement.**

The structural analysis of basic and complex dance movements, their inherent rhythmic configuration. Understanding of movement and its rhythmic structure and correction of movement errors. Practical experience in percussion accompaniment of these movements will be emphasized. Prerequisites: DAN 2201 and DAN 2202

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3366. Laban/Bartenieff Movement Analysis.**

Labanotation Theory & practice of the Laban Effort-Shape Movement System and its application toward creative expression. Theory and practice of Bartenieff Fundamentals, a movement training which patterns efficient connectivity in the body with emphasis on full psychophysical involvement in personal expression. Basic skill in reading and writing Labanotation will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 3367. Dance Performance Workshop.**

Designed to give the advanced dance student experience in learning and performing varied styles of dance choreography. Established dance works and experimental works will be included in order to develop a professional level ability to learn, remember and perform a wide repertory of choreography. Prerequisite: DAN 1191, or PFW 1180H, or DAN 1192, or PFW 1180I

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 3370. Dance Composition III.**

Opportunity for students to increase knowledge and understanding of dance composition elements as they relate to group forms, theme, development, and phrase manipulation. Prerequisites: DAN 2201, DAN 2202, and DAN 2191. Restricted to dance majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4171. Musical Theatre Dance III: Pre 1970s Choreography.**

This course provides an examination of the history and development of musical theatre dance styles, including an in-depth study of significant works of choreographers before 1970, from Agnes DeMille to Jerome Robbins. Prerequisite: DAN 3172

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4172. Musical Theatre Dance IV: Post 1970s Choreography.**

This course provides an examination of the history and development of musical theatre dance styles, including an in-depth study of significant works of choreographers after 1970, including Bob Fosse, Michael Bennett, Ann Reinking, and Susan Stroman. Prerequisite: DAN 4171

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4292. Advanced Principles.**

Students analyze and perform advanced principles based in dance technique, and somatic approaches to dance training. Students develop a high level of conceptual mastery and physical skill for their teaching and performing preparation. May be repeated once for credit. Prerequisite: DAN 3292 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4330. Dance Kinesiology.**

This course is an experiential study of the human body in rest and in motion. Emphasis will be on the skeletal and muscular systems in consideration of applications to dance performance, teaching and creative processes, and injury prevention and rehabilitation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4334B. Choreographic Influences in Dance.**

The purpose of this course is to investigate how many single important dancers, particular school or movements in dance, artistic and technological developments and political, sociological and other world events have shaped choreographic trends in dance. Prerequisite: upper division standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DAN 4334C. Costuming for Dance.**

This course provides a practical approach to designing and building costumes for dance. Emphasis is placed on basic stitching techniques, introductory patterning, concepts of design for dance and collaborating with other artists. Practical experience with university productions will be required in the laboratory. Prerequisites: DAN 2202 and DAN 2191

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DAN 4350. Musical Concepts for Dance Performance.**

Provides dance majors with a working knowledge of the essential vocabulary of music-rhythm, melody, form and harmony, together with an overview of musical styles throughout both time and geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DAN 4360. Dance Independent Study.**

Designed to give supervised experience to qualified advanced students in dance. Independent study on research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4366. Writing and Reading About Dance.**

Surveys dance literature including an opportunity for students to familiarize themselves with resources, current publications, theoretical materials, and professional organizations in dance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4367. Advanced Dance Composition: Theory and Practice.**

Students will choreograph, costume, and design lights for a group dance of substantial length, justifying artistic choices in an accompanying documented paper. The results of this course will be a senior dance concert. May be repeated once for credit. New material will be covered each time taught. Prerequisites: DAN 2181, DAN 2201, DAN 2202, and DAN 3292

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**DAN 4368. World Dance and Culture.**

This course provides an introduction to the study of dance cultures in diverse contexts around the world. Lectures, group discussions, and writing projects will increase awareness of dance and human movement as cultural knowledge. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4369. Dance in the 20th and 21st Centuries.**

Exposure to a wide variety of literature in the area of dance, the arts and sciences which specifically address the development of dance as an art-form and cultural phenomena in the 20th and 21st Centuries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**DAN 4470. BFA Senior Concert.**

A course that provides a practical opportunity to choreograph, perform, and produce a dance concert. Students will engage in the creative, administrative, and promotional aspects of production. Students will also compile a thesis booklet. Prerequisites: Must be a Senior standing and have completed DAN 3292 and DAN 3370

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Developmental Education (DE)

**DE 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5321. The Community College.**

Introduction to the community college and to its roles and functions in American education. Special attention will be directed to evolution, development, and patterns of organization, purposes programs, personnel and current issues of the community college. Students take DAE 5383 or DE 5321 may not take DE 7321 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking in the college and adult classroom. Topics will include variables in teaching and learning methods of assessment, and approaches to instructions. Students taking DAE 5371 or DE 5324 may not take DE 7324 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5339. Assessment and Evaluation in Developmental Education.**

Foundations of students assessment and program evaluation for developmental education programs. Topics include: quantitative and qualitative classroom assessment; formative vs. summative assessment; test interpretation; social, legal, and ethical implications of assessment; reliability and validity; norm vs. criterion tests; placement test; program evaluation models; as well as formative and summative evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5365. Administration of Developmental Education.**

An overview of the field of developmental education and of the various types of programs designed to meet the needs of the underprepared learner. Special emphasis is on needs assessment, program design, implementation, management and leadership, and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5373. Grant Development and Management.**

Course purposes include demystifying grant proposal writing and becoming acquainted with grant management resources. Student will locate funding sources, develop a proposal and budget, and explore accountability issues and processes for funded projects. Emphasis is on optimizing location and use of online grant information and developing professional networks. Students taking DAE 5373 may not take ED 7373 for doctoral level credit

**3 Credit Hours. 1.5 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5375. Learners in Developmental Education Contexts.**

A profile of the underprepared postsecondary student and an overview of the programs and instructional strategies appropriate for use with that target population. Students taking DAE 5375 or DE 5375 may not take DE 7301 for doctoral level credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5378. Problems in Developmental Education.**

This course is designed to examine topical problems faced by practitioners in developmental education. The topic of the course may change. Course may be repeated for credit with different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5379. Independent Study.**

Individual problems or research topics designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 5384. Internship in Developmental Education.**

Students seeking the M.A. degree must complete a one-semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the Thesis 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7199. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7299. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7301. Understanding Developmental Education Learners in a Diverse Society.**

This course identifies the evolution, characteristics, demographics, and needs of developmental education learners. Emphasis is placed on understanding internal factors, including the cognitive, affective, and psychosocial needs of these students, as well as on analyzing external factors, including the social, political and institutional forces that impact developmental learners' educational experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7302. Policy and Politics in Developmental Education.**

This course addresses the policy and politics of planning, funding, implementing, and evaluating Developmental Education programs in postsecondary education. Readings and discussions focus on current and historical issues relevant to addressing the academic needs of educationally disadvantaged students from the perspective of researchers, program directors, policy analysts, and instructors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7303. Teaching and Learning in Developmental Education.**

The course focuses on the institutional development, intellectual development, learner development, and self-development for effective teaching and learning in developmental education. Topics include instructional and learner theories, pedagogies, assessment and evaluation techniques, and best practices for instruction and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7304A. Curriculum Design in Developmental Education.**

This course focuses on principles and processes of curriculum design and implementation in developmental education contexts, including examination of emerging research and issues. The course pedagogy also engages students in independent curriculum research, planning, and problem-solving

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304B. Theory and Research of Digital Literacies.**

This course focuses on understanding the complex relationships between technology, teaching, and learning in varied developmental education environments. Tools and strategies for planning, integrating, and assessing technology-supported instruction are explored within frameworks linking theory to practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**DE 7304C. Student Motivation and Self-Regulation.**

This course focuses on research-based theories of student motivation and self-regulation and highlights practical applications of these theories for students in developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304D. Transformative Learning.**

This course introduces students to the core principles of transformative learning. The course is a theory-driven, project-based advanced class designed to enable students to develop theoretical perspectives, engage in intensive practice, and understand the use of transformative learning for applications with postsecondary individuals, groups, and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7304E. Current Topics in Motivation Intervention Research.**

In this course, we will analyze, synthesize, discuss, and apply cutting-edge research on various types of motivation interventions in education. Emphasis will be placed on theory, research, and practice in postsecondary educational settings and developmental education contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**DE 7305. Multicultural Education in a P-16 Context.**

This course uses critical multicultural framework to trace the evolution of the developmental learner in a P-16 educational system. Students in this examine school practices and policies in an attempt to map the educational trajectory and improve the educational experiences of P-16 underrepresented and underserved students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7321. The Community College.**

Introduction to community college and to its roles and functions in American education. Special attention will be directed to evolution, development and patterns of organization, purposes, programs, personnel and current issues of the community college

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7322. Learning Support Centers in Postsecondary Settings.**

The course explores the learning assistance movement in postsecondary settings including its history, leaders, and current research. Topics include program planning; leadership, organization, and management; human and financial resources; facilities and equipment; legal responsibilities; equal opportunity and access; diversity; ethics; campus and community relations; and assessment and evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7323. Academic Support for Students with Learning Disabilities.**

The course focuses on Learning Disabilities (LD) and Executive Function (EF) Disorders and their nature, prevalence, and significance in postsecondary environments. Topics include theories about the origins and nature of LD and EF, development across the lifespan, characteristics of individuals, and approaches to service, delivery and teaching

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7324. Teaching Learning Strategies and Critical Thinking.**

Theory and pedagogy of learning strategies, problem solving, and critical thinking skills in the college and adult classroom. Topics will include variables in teaching and learning, methods of assessment, and approaches to instruction. Students who have taken EDP 5371 or DAE 5371 cannot take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7325. Advising Developmental Students.**

The course will focus on theories and techniques of advising and helping skills for developmental students enrolled in postsecondary education. Didactic and experiential activities will provide students enrolled in the course with opportunities to learn and practice skill development in academic advising, helping, and communicating

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7380. Managing Developmental Education Programs.**

In this course, students will learn the theoretical and practical elements of management of developmental education programs in higher education. Readings and discussions focus generally on best practices in higher education leadership and specifically on best practices in leadership and management in developmental education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DE 7381. Practicum.**

Students seeking the Ed.D. degree must complete a one semester, 150 clock hour practicum in an institution or agency other than their own; site selection needs approval of program coordinator. Practicum students will participate in leadership activities involving program planning, management, budgeting, and evaluation. Prerequisites: foundation and core courses

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7390. Nature of Educational Inquiry.**

Current paradigmatic and epistemological states of human inquiry are discussed presenting an opportunity to examine educational inquiry, create research knowledge related to the current state of the academy, and examine the issues of a research career

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**DE 7399. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7599. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7699. Dissertation.**

Original research and writing in Developmental Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**DE 7999. Dissertation.**

Original research and writing in Development Education to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled. Prerequisite: Admitted to doctoral candidacy

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Diversity Studies (DVST)

**DVST 3301. Introduction to Diversity Studies.**

The course is a general, multi-disciplinary and comparative survey of U.S diversity issues. It highlights the traditional minorities, such as African, Latino/a American, Native, and Asian Americas, as well as European American ethnic groups. It also explores issues related to religion, age, sexual orientation, gender identity, and physical ability/disability. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**DVST 3320. Introduction to Global Diversity Issues.**

This course provides an understanding of relationship between U.S and other nations in terms of economics, politics, and culture. Students will examine how colonialism shaped developed and underdeveloped nations, investigate grassroots activism in response to globalization and will examine how policies formulation by one country has consequences for other countries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DVST 5310. Diversity Studies: Theories & Issues.**

Focusing on the four major ethnic groups (Native Americans, African Americans, Mexican Americans, and Asian Americans), this interdisciplinary course introduces critical theories and issues relating to race, class, ethnicity, culture, and other areas of diversity in the United States. The literature component of the course will supplement the theoretical texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**DVST 5320. Global Issues in Diversity.**

Course provides framework for analyzing diversity globally. Examines how globalization acts to shape and re-shape ethnic identity and ethnic antagonism. Course investigates how the shaping and re-shaping of ethnic identity influences immigration policy, reproductive rights, LGBTQ rights, and healthcare delivery

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Early Childhood Education (ECE)

**ECE 4300. The Languages of Children: Acquisition and Use.**

This course is designed to provide pre-service teachers with pertinent information regarding the development of language and cognition in pre-school and school-aged children. Information regarding language structure, the sequence of development as well as the cognitive and social aspects of language acquisition and use will be included.

Prerequisites: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 4310. Seminar for Teachers of Young Children.**

Directed field experiences in observation, participation, problem solving, assessing and teaching in programs for young children. A minimum of 1.5 hour seminar per week is required in addition to assignment (three hours weekly) in an approved preschool or kindergarten program.

Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, ECE 4300; Co-requisite: ECE 4352; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ECE 4352. Curriculum for Preschool and Kindergarten Children.**

Emphasizes research, program development, and developmentally appropriate teaching strategies, materials and activities for children ages 3-6 and collaboration with families. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3315, ECE 4300; Co-requisite: ECE 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 4380. Independent Study in Early Childhood.**

In-depth study of selected topics of current need or interest in early childhood education. Work due on independent study basis with faculty member and only with permission of department. Repeatable for credit with different emphasis. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ECE 5318. Advanced Early Child Development: Readiness for Learning and Language Abilities.**

A study of the cognitive, affective, and psychomotor factors bearing on the young child's readiness for learning and acquisition of language. The course includes methods of child study, such as instruction, and practice in using observational techniques and anecdotal records. It includes the design and evaluation of specific readiness activities and guided field experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5319. Curriculum and the Young Child, I (Kindergarten).**

Organization and evaluation of programs for young children. Translating developmental knowledge into effective practices, which may be employed in the total education of young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5330. Curriculum and the Young Child, II (Kindergarten).**

Advanced study of curriculum and materials used in educational programs for young children

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECE 5380. Independent Study in Early Childhood.**

In-depth study of selected topics of current needs or interest in early childhood education. Work done on independent study basis with faculty member and only with permission of department. Repeatable once with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Economics (ECO)

**ECO 2301. Principles of Economics.**

A non-technical study of micro- and macroeconomic principles, including demand and supply, production and cost, market structures, aggregate output and performance of the economy, the business cycle and growth, unemployment and inflation, money and banking, fiscal policy, monetary policy, and international trade and finance. Not for business or economics majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** ECON 1301

**ECO 2314. Principles of Microeconomics.**

This course provides an introduction to the microeconomics of a modern industrial society. Emphasis is placed on supply and demand, cost and price concepts, market structures, income distribution, and similar issues. Prerequisite: MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** ECON 2302

**ECO 2315. Principles of Macroeconomics.**

This course provides an introduction to the macroeconomics of a modern industrial society. Emphasis is placed on the analysis of national income, economic stability, fiscal policy, money and banking, economic growth, and international trade. Prerequisites: ECO 2314; MATH 1319 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** ECON 2301

**ECO 3301. Economics of Sports.**

This course focuses on the business and economics aspects of professional and intercollegiate sports. Topics include the role of sports leagues, the demand for sports, the structure of labor markets in the four major sports, salaries of professional athletes, antitrust legislation, and intercollegiate athletics. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3304. Environmental Economics for Decision Makers.**

Economic analytical tools and concepts are used to understand how the environment, economy, and businesses interact and the importance of public policy in shaping this interaction. Natural resources as inputs to production are explored. Current policy issues and environmental problems provide illustration and application. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3305. Law and Economics.**

Economic analytical tools and concepts are used to understand how the environment, economy, and businesses interact and the importance of public policy in shaping this interaction. Natural resources as inputs to production are explored. Current policy issues and environmental problems provide illustration and application. Prerequisite: ECO 2301 or ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3311. Money and Banking.**

A study of money and credit in the modern economy. Examines the development of modern money and banking systems, the structure of the Federal Reserve System, and monetary theory. Prerequisites: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3313. Labor Economics.**

A study of the application to labor markets of supply and demand principles. Topics include the work/leisure decision, time allocation in the household, the demand for education and training, the firm's use of labor inputs, the impact of unions, and discrimination in labor markets based on race and gender. Prerequisite: ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3314. Intermediate Microeconomics.**

A study of the application to labor markets of supply and demand principles. Topics include the work/leisure decision, time allocation in the household, the demand for education and training, the firm's use of labor inputs, the impact of unions, and discrimination in labor markets based on race and gender. Prerequisite: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3315. Intermediate Macroeconomics.**

An analysis of the traditional and modern theories of inflation, unemployment, long-run economic growth, and stabilization policies for promoting economic stability. Prerequisites: ECO 2314 and ECO 2315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3317. International Economics.**

A study of the basis for trade among nations and the means of its financing, customs unions, balance-of-payments problems, and similar issues. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ECO 3320. Emerging Market Economies.**

The course focuses on the structural characteristics of the emerging market economies, with an emphasis on analyzing the salient economic challenges and opportunities facing contemporary emerging market economies. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3327. Public Finance.**

A study of the growth of the revenue and debt of the United States, taxation and tax incidence theory, and the effect of public expenditures and taxes on economic growth. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3334. Business Enterprise and Public Policy.**

A survey of the development and structure of American industry and of governmental regulation of business. Prerequisite: ECO 2314. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 3335. Managerial Economics.**

A study of the application of economic analysis in the formulation of business policies. Includes demand analysis and pricing policies. Prerequisite: ECO 2314

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 3353. Comparative Economic Systems.**

An analysis of the theory and practice of capitalism, socialism, and communism. Prerequisites: ECO 2301 or both ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4305. Urban and Regional Economics.**

A study of urban and regional economic issues including regional growth, crime, transportation, and the urban-rural interface. A focus on sources and uses of models and data unique to regional science and urban economics. Prerequisites: ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4313. Econometrics.**

This course studies statistical estimation, inference and forecasting methods used in economic research with a focus on models and methods unique to economics. Prerequisites: ECO 2314 and ECO 2315, QMST 2333, MATH 1329 or equivalent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ECO 4390. Internship in Economics.**

Integration of professional and academic experience through an internship with an external employer. Prerequisites: Open to Economics majors only, students must have completed at least nine hours of major courses, enrollment subject to availability and approval, and credit awarded as pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ECO 4395. Independent Study in Economics.**

An in-depth study of a single topic or related problem solved through economic research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ECO 5302. Economic Theory and Policy.**

An intensive study of micro-and macroeconomic concepts; the price system as it functions under competition, monopoly, monopolistic competition and oligopoly; national income measurement and determination; business cycles; money and banking; monetary policy; fiscal policy and economic stabilization. May not be counted as an elective MBA course. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ECO 5310. International Economics.**

Examination of the patterns of trade and finance among nations, integrating the topics of exchange rates, trade barriers, customs unions, and macroeconomics policy into a unified treatment of international economic relations. Prerequisite: B A 5353. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ECO 5316. Managerial Economics.**

The application of economic theory and analysis to the formulation of business policy, including demand analysis, production theory, linear programming, and pricing policy. (MBA with Technology Emphasis students complete TECH 5315.) Prerequisite: QMST 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 5320. Emerging Market Economies.**

The course focuses on the structural characteristics of the emerging market economies, with an emphasis on analyzing the salient economic challenges and opportunities facing contemporary emerging market economies. Prerequisites: BA 5353

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ECO 5378. Macroeconomic Theory and Policy.**

An analysis of theory and policy questions relating to the rate of economic growth. The theory of national income, employment and the price level from the point of view of dynamics. Students may take either BA 5378 or BA 5316. Prerequisite: BA 5302 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Education (ED)

**ED 7111. Collaborative Inquiry Project, Phase I: Field-Based Assessment.**

This course involves the selection of a problem for study in the field. Students will gather and analyze needs assessment data and design an action plan for field-based research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7112. Collaborative Inquiry Project, Phase II: Field-Based Implementation.**

This course requires students to implement an action plan to solve a problem in the field that has been selected in ED 7111. Prerequisite: ED 7111 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7113. Collaborative Inquiry Project, Phase III: Field-Based Evaluation.**

This course involves the collection and analysis of data as part of a field-based action research project. Students will gather, analyze, and interpret a variety of data and prepare a written report on a field-based research project. Prerequisites: ED 7111, ED 7112 or instructor's permission

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**ED 7199A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7199B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7299B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7310. Instructional Roles in Counseling, Leadership, Adult Education & School Psychology.**

This seminar is intended to prepare graduate teaching and instructional assistants in the CLAS Department to function effectively in various instructional and instructional support roles. Required for first-year teaching assistants and GIAs. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ED 7311. Educational Philosophy in a Social Context.**

This course examines the philosophical foundations of education from the time of Plato through current writings. It frames these foundations through the lens of educational challenges of today. Readings include classical and current writings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7312. Leadership and Organizational Change.**

This course will familiarize students with different perspectives on organizations, different paradigms by which they might be viewed, and a survey of research done on organizations, organizational leadership and change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7313. Advanced Studies in Adult Learning and Development.**

This advanced seminar will examine research and theoretical literature on a variety of topics including: characteristics of adult learners; models of adult cognitive and psychosocial development; adult cognition, memory, and intelligence; and principles for facilitating adult learning. Restricted to Ph.D. in Education degree, Major in School Improvement

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7314. Community Development for Educators.**

Examines models and methods of community development as relevant to the practice and scholarship of formal and non-formal education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7315. Models of Inquiry: Understanding Epistemologies.**

This course examines the philosophies informing different research epistemologies, and examples of how these can be actualized methodologically. Philosophies to be analyzed include feminism, and race-based theory. This course will help students see the multiple possibilities for conducting research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7316. Advanced Studies in Adult Development.**

This course examines current theories of adult development, fundamental developmental changes in adulthood, and the implications for practice in adult education. Restricted to students admitted to the Education Ph.D. Program- APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7318. Advanced Studies in Adult Learning.**

This advanced seminar will examine research and theoretical literature on a variety of topics related to adult learning such as: characteristics and diversity of adult learners; key theories of adult learning; alternative perspectives on adult learning; intelligence, aging and wisdom; and learning in the digital age. Restricted to students admitted to the Education Ph.D. Program – APCE major or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7320. Literature Review for Research Writing.**

In this seminar course, students conduct a careful examination of a body of literature related to a research topic in adult/professional/community/lifelong education. The literature review tests research questions in relation to what is published about a topic, discusses various positions, crafts coherent arguments and addresses knowledge gaps. Prerequisites: ED 7352 or ED 7351. Restriction: Doctoral standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7321. Historical and Philosophical Foundations and Contemporary Issues in Adult Education.**

Examines historical and philosophical foundations for the study and practice of adult professional, and community education in formal and non-formal settings; and contemporary issues in adult education in a "learning society." Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7322. Human Resource and Professional Development.**

Examines the methods, practices, and issues of facilitating learning related to occupational, professional, and volunteer roles. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7323. Community/Organizational Leadership and Management.**

Examines issues and strategies related to the operation and delivery of educational programs in post-secondary, adult, and community settings.

Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7324. Problems and Strategies in Program Planning Seminar.**

Addresses principles and procedures, issues and trends, utilization of assessment, goal setting, and other effective strategies for developing learning opportunities and programs responsive to human, professional, and community needs. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7326. Theoretical Foundations of Educational Policy, Politics and Practice.**

This course examines the historical and theoretical underpinnings informing educational policy, politics and social justice. It addresses both the micro and macro levels of the context, values, and cultural norms guiding policy and practice in a democratic society. Prerequisites: ED 7311, ED 7312, and ED 7313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7327. Education Policy Development.**

This course equips students with the skills needed to analyze the origins and consequences of existing policy and to play active roles in policy development for educational equity and social justice. Prerequisite: ED 7326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7328. Research and Analysis in Education Policy.**

This course engages students in a field-based educational policy research project using quantitative and qualitative techniques. Students will develop their skills to identify policy issues, gather and analyze data, and draw conclusions, and disseminate findings. Prerequisites: ED 7326, ED 7327, ED 7351, and ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7329. Field-Based Experience in Educational Policy.**

This course provides fieldbased practice in policy analysis and development from a democratic and social justice perspective. With guidance from a university faculty supervisor and site mentor, the student will develop and implement a policy project related to democracy and social justice. Prerequisite: ED 7328

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7331. Foundations of School Improvement.**

Examines school improvement efforts from philosophical, political, psychological, cultural, ethical, and technological foundations. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ED 7332. Facilitating School Improvement.**

Examines school culture, schools as learning communities, the change process, and research-based school improvement models, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7333. Curriculum and Instructional Leadership.**

Examines the relationship between curriculum, instructional improvement, and teacher development, with experiential applications. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7334. Models of Educational Assessment.**

Includes assessment of student learning at the individual, classroom, school, and system level; teacher assessment; and program assessment. Prerequisites: Core courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7341. Dissertation Proposal Development.**

In this course students approaching dissertation stage meet in a seminar designed to help them clarify their research problem and develop a preliminary proposal for the dissertation. Core and concentration courses must be completed with minimum grades of "B" in each course prior to taking ED 7341. Prerequisites: ED 7351, ED 7352, and ED 7353 or ED 7354 with minimum grades of "B". Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7345. Human Resources and Instructional Management.**

This course focuses on the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management, staff supervision, appraisal, and development, curriculum planning and alignment and student assessment. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7347. The Superintendency.**

This course addressed issues critical to superintendents in Texas. These include leadership, leadership assessment, school board relations, and other governance issues, management strategies, the role of public education in a democratic society, and professional ethics. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7349. School Finance and Business Management.**

This course focuses on the financing of public schools. Students will examine the school budgeting process, sources of school revenues, principals of taxation, methods of school fund accounting, and techniques of business management. Students taking the course will complete an original research project under the instructor's direction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7350. Methods of Research in Education.**

This course provides an introduction to the design and analysis of quantitative and qualitative research in education. Topics included are quantitative research design, measurement, and statistical analysis. From a qualitative perspective, the course provides an introduction to the various qualitative modes of inquiry relevant to education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7351. Beginning Quantitative Research Design and Analysis.**

Includes descriptive statistics; sampling techniques; statistical inference including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7352. Beginning Qualitative Design and Analysis.**

Introduces the qualitative paradigm. Includes distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluating qualitative research. Prerequisites: Core and Concentration courses or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on issues in the design and implementation of quantitative research. Topics include ANOVA, ANCOVA, and MANOVA, correlation analysis, regression analysis, nonparametric tests, and relationships between experimental designs and statistical analysis techniques. Prerequisite: ED 7351 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7354. Intermediate Qualitative Design and Analysis.**

Focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research. Prerequisite: ED 7352 with a minimum grade of "B", or instructor's permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7355. Non-Parametric Research Design and Analysis.**

This course is designed to address problems in education in situations where the sample size collected is small, categorical in nature, of non-parametric research design and statistical methods are covered in detail

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7357. Advanced Study in Action Research.**

This course examines underlying theory, practice, skills, and issues in action research. Conducting research in the area of action research is also addressed. This course is an appropriate elective for majors in School Improvement or Adult, Professional and Community Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ED 7358. Theoretical and Conceptual Frameworks in Qualitative Research.**

Advanced study in the historical, philosophical, conceptual, and theoretical underpinnings of qualitative research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7359. Seminar in Quantitative Research.**

This course is a small group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods. Prerequisites:

ED 7351 and ED 7353 with minimum grades of "B" in each course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7361. Understanding People: Professional Development.**

Fundamental issues related to development of personnel. Knowledge of staff appraisal, adult learning and development, and staff development. Focus on professional development in K-12 schools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7362. Supervision of Instruction.**

Concepts of curriculum and instructional models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered as part of the internal environment. An emphasis will be placed on supervision knowledge, skills, and tasks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7363. Curriculum Design.**

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Focus on K-12 school curricula. Students who have completed EDA 6342 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7364. Team Development in Education.**

This course addresses the development and use of educational teams to improve educational organizations, teaching, and learning. Because of its focus on education, it is recommended only for doctoral students preparing for careers in educational settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7365. Cross-cultural Leadership in Education.**

Students will work as a team to undertake a research study of leadership across cultures in the U.S. and Mexico. Students must be accepted in the Education Ph.D. program. Fluency in Spanish is preferred. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ED 7371. Anthropology and Education.**

This course introduces the student to the basic concepts in anthropology and education and sketches the application of these concepts. It explores the research in anthropology and education with relevance to both K-12 schools and other, more general educational settings. The course is an appropriate elective for Education Ph.D. majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7372. The Emotions of Leading, Teaching, and Learning.**

This course offers an introduction to theories of emotion, leading, teaching, and learning as interconnected fields. Students in this course will achieve a theoretical grounding that will deepen their understandings of the relationship of emotion to all of these important human endeavors. This course will be of interest of practitioners, researchers, and/or theorists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7378. Problems in Education.**

Individual problems or topics will be designed and completed to emphasize selected areas of study. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**ED 7379. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Counseling, Leadership, Adult Education & School Psychology Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7389A. Theological Issues in Education.**

This course focuses on theological issues in education. Informed by the disciplinary structures of curriculum theory, this seminar course convokes a community of scholars and practitioners in thoughtful dialogue and study that takes up questions of spiritual, moral, and theological issues within education in a pluralistic society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389B. Seminar in International Educational Research: Chile.**

This course develops theoretical knowledge, methodological skills, and scholarly capacity for international educational research. It focuses on research within the complex educational environment of Chile, involving seminar components held at the university and research fieldwork in Chile. International research is framed as a form of service learning. Restricted to students in the PhD in Education program

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389C. Advanced Theory in Qualitative Research.**

This course features advanced study in qualitative research methods. The course studies such methods as ethnography, case study, phenomenology, narrative analysis, post-qualitative research, grounded theory, or more advanced qualitative research in general and their constitutive field techniques. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389D. Advanced Theory in Qualitative Research: Narrative Research.**

The purpose of this course is to explore the possibilities of narrative research. The course will provide an overview of narrative inquiry, look at various theories and corresponding examples of research, and explore, analyze, and interpret data using narrative methods. Prerequisites: Introduction to Qualitative Research and Intermediate Qualitative Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389E. Mexican Perspectives on Mexico - U.S. Immigration.**

The course gives U.S. educators an understanding of Mexican to U.S. immigration from Mexican women's perspectives. Students will read background information and visit Mexico where through lectures, field interviews, and field visits, they will view immigration from the "other side". They will analyze and write up data when they return

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389G. Adult Learners in Higher Education.**

This course examines adult academic learning, instruction, and the particular challenges adults face balancing multiple life demands and often studying in a system established to meet the needs of younger students. Course may not be repeated. Maximum 3 credit hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7389L. Writing for Publication.**

Students will hone their writing skills. Students will work individually and in groups, getting feedback from other students and the instructor. Topics include APA style, getting started, first drafts, polishing and tightening, re-writing, submitting a manuscript, responding to feedback/reviews and more. Restricted to masters' and doctoral students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**ED 7389M. Shifting Demographics in Texas: Exploring Education, Democracy and Healthy Communities.**

Students will explore the shifting population in Texas through multiple frames including historical, sociological, anthropological and political. Class will canvas the literature and emerging community conditions as a vehicle for imagining possible theoretical, policy and local responses to the conditions we see in schools and local communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**ED 7390. Survey Research and Scale Development.**

This course provides the technical information necessary to design and conduct a quantitative or mixed-method survey research project. The course is divided into three sections: 1) the details of scale development; 2) details of sample selection and survey delivery systems, and 3) data analysis, writing, and presenting results effectively

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ED 7399A. Dissertation.**

Original research and writing in Adult, Professional, and Community Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), nocredit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7399B. Dissertation.**

Original research and writing in School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted

**Grade Mode:** Credit/No Credit

**ED 7599A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7599B. Dissertation.**

Original research and writing in Education-School improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699A. Dissertation.**

The student conducts original research and writing in Adult, Professional, and Community Education, guided by the direct supervision of the dissertation chair. While conducting dissertation research and writing, students must be continuously enrolled. The course is graded on a credit (CR), progress (PR) or no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7699B. Dissertation.**

Students produce a dissertation under direct supervision of dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. This course is graded on a credit (CR), progress (PR), or no-credit (F) basis. Prerequisites: Core, Concentration, and Methodology courses or instructor's permission

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999A. Dissertation.**

Original research and writing in Education-Adult, Professional and Community Education, to be accomplished under direct supervision on the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ED 7999B. Dissertation.**

Original research and writing in Education-School Improvement, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled. Graded on a credit (CR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Education Student Teaching (EDST)

**EDST 4380. Student Teaching All-Level I EC-6/4-8.**

This half-semester student teaching course is designed for undergraduate students seeking All-Level teacher certification. Students will engage in teaching experiences in EC-6 or 4-8 settings for half of a 14-week assignment with university guidance and supervision. Repeatable for credit. Prerequisite: Admission to the Teacher Preparation Program; Co-requisite: EDST 4381; All coursework completed; 2.75 Overall GPA

**3 Credit Hours. .5 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**EDST 4381. Student Teaching All-Level II 8-12.**

This half-semester student teaching course is designed for undergraduate students seeking All-Level teacher certification. Students will engage in teaching experiences in 8-12 settings for half of a 14-week assignment with university guidance and supervision. Repeatable for credit. Prerequisite: Admission to the Teacher Preparation Program; Co-requisite: EDST 4380; All coursework completed; 2.75 Overall GPA

**3 Credit Hours. .5 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**EDST 4680. Student Teaching 4-8.**

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced 4-8 teachers in the public schools with university supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State teacher proficiencies. Prerequisites: Admission to the Teacher Preparation Program; All coursework complete; 2.75 Overall GPA

**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**EDST 4681. Student Teaching 8-12.**

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced 8-12 teachers in the public schools with university guidance and supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State proficiencies for teachers. One conference hour per week is required. Prerequisites: Admission to the Teacher Education Program; All coursework completed; 2.75 overall GPA

**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**EDST 4687. Student Teaching EC-6.**

Students will integrate and apply knowledge and skills learned from their program of study while student teaching with experienced EC-6 teachers in the public schools with university supervision. Students will demonstrate exit-level proficiency in state-adopted and Texas State teacher proficiencies. Prerequisites: Admission to the Teacher Preparation Program; All coursework completed; 2.75 Overall GPA

**6 Credit Hours. .5 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

## Educational Leadership (EDCL)

**EDCL 5100. Educational Leaders' Continuing Professional Development.**

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated once if necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5339. Understanding Self: Developing a Personal Vision of Leadership.**

Successful leadership in organizational settings requires an understanding of human behavior. This understanding begins with the knowledge of self and leads to the understanding of others. The focus of this course is on the individual student. The intent is to enhance the student's self-awareness of values, beliefs, and attitudes related to successful school leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5340. Shaping Organizations and Using Inquiry: Management and Leadership.**

This course includes an understanding of the basic structural components of educational organizations and the theoretical frameworks that describe organizational behavior. Students will focus on the process of action research, planning, decision-making, change in organizations, and leadership. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5345. Understanding People: Professional Development.**

This course includes fundamental issues related to the development of personnel, entry-level knowledge of staff appraisal, adult learning and development, and staff development. Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5347. Understanding Environments: Social, Political, Economic, Legal, and Technological.**

Concepts of the internal and external environment of educational organizations are explored. Entry level concepts are presented in areas of school environments. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5348. Supervision of Instruction.**

Concepts of curriculum and instructional leadership models for schools will be developed. Factors such as curriculum leadership and instructional improvement are considered part of the internal environment of schools. Concurrent or Prerequisite: EDCL 5339

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 5388. Problems in Administration.**

Individual problems not related to thesis or research problems. Designed to place emphasis on selected areas of study. May be repeated once for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6342. Curriculum Design.**

Theory and practice in planning for curriculum needs assessment, development, implementation, and evaluation. Course may not be taken concurrently with EDCL 5348. Prerequisite: All Level I core courses or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6343. Continuous School Improvement.**

Applies the concept and principles of Total Quality Improvement to schools and classrooms and integrates Total Quality Improvement with other school improvement models. Prerequisite: All Level I core courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6344. Campus Leadership.**

Develop student skills as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader. Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, and other skills as a campus leader would assume. Prerequisites: All Level I core courses; and EDCL 6342, EDCL 6343, and EDCL 6348, or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6345. Human Resources and Instructional Management.**

This course applies principles of leadership to the twin areas of human resource administration and instructional improvement. Topics addressed include legal requirements for personnel management including staff supervision, staff appraisal, staff development, curriculum planning and alignment, and student assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6347. The Superintendency.**

This course addresses issues critical to superintendents in Texas. These include leadership and leadership development, school board-superintendent relations, management strategies, the role of public education in a democratic society, and professional ethics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6348. School Law.**

This course examines the constitutional provisions, statutory laws, court decisions, and regulations governing public schools with special reference to state and federal relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6349. School Finance and Business Management.**

This course applies principles of leadership to the financing of public schools. Students will develop skills in projecting district revenues, budgeting development and analysis, sources of school revenue, principles of taxation, financial accountability, and techniques relevant to the effective leadership of school business matters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6351. Instructional Models.**

Characteristics of effective teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Prerequisites: All Level I and II courses or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6352. School as Center of Inquiry.**

Prepares the educational leader to be an intelligent consumer of research and to assume a leadership role in school-wide action research. This course is a prerequisite for EDCL 6358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6358. Integrative Seminar.**

This course integrates key theories, concepts, and principles learned during the student's course of study. The student will complete a paper including an action research plan designed to solve an educational problem present within a specific educational setting. The master's student will defend the plan during the oral examination. Prerequisites: Levels I, II and EDCL 6352 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 6387. Field-Based Practicum.**

The practicum provides students the opportunity to develop leadership skills needed by principals of elementary and secondary schools. Students will develop a practicum proposal in cooperation with their site-mentor and university supervisor. The course focus is on the development of administrative skills in a real world setting. Prerequisites: 27 hours of course work including EDCL 6352 or permission of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**EDCL 6388. Principal's Field-Based Practicum II.**

This course is a continuation of EDCL 6387 and allows students to continue projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. This course is offered in the spring semester only. Prerequisites: EDCL 6358 and EDCL 6387

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 6389. Superintendent's Practicum I.**

The practicum is intended to give prospective school superintendents the opportunity to hone their leadership skills under the guidance an experienced and successful school leader. Offered fall semester only and may be taken concurrently with other superintendent certification courses

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 6390. Superintendent's Practicum II.**

A continuation of EDCL 6389, this course allows students to carry through projects and activities begun in the fall semester and to work further with their on-site mentor and university supervisor. Offered spring semester only. May be taken concurrently with other superintendent certification courses. Prerequisite: EDCL 6389

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 7100. Educational Leaders' Continuing Professional Development.**

This course provides state-of-the-art continuing professional development for in-service, non-degree seeking educational leaders. New topics will be addressed with each offering. The course may be repeated as necessary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7344. Campus Leadership.**

Develops the skills needed as a practitioner in elementary and secondary schools, focusing on the role and functions of the principal as a leader. Activities lead participants to practice skill development in evaluation processes, student activity programs, staffing patterns, site-based decision-making, community relations, accounting procedures, as well as other skills. Prerequisites: All Level I core courses, and EDCL 6342, EDCL 6343, EDCL 6348, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7348. Public School Law.**

Examines constitutional provision, statutory laws, court decisions, and regulations governing public schools, with reference to state and federal relationships. Participants develop skills in researching and interpreting law, policy development and impact on public schools and communities. (Note: Students who took EDCL 6348 may not repeat this course for doctoral credit.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7351. Instructional Models.**

Characteristics of effective Pre-K through 12 teaching are identified and correlated with learning theories and their corresponding instructional models. Matching instruction to the needs of learners and integrative approaches are emphasized. Students who have completed EDCL 6351 may not take this course for doctoral credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDCL 7387. Field Practicum, Part I.**

Students seeking Principal Certification must complete this field-based 2 semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6387 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EDCL 7388. Field Practicum Part II.**

Students seeking Principal Certification must complete this field-based 2-semester internship focusing on actual experiences with each of the state standards. The practicum provides opportunities to plan, produce, participate in, and reflect upon campus leadership. (Note: Students who took EDCL 6388 may not repeat these courses for doctoral credit.)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Educational Psychology (EDP)

**EDP 1350. Effective Learning.**

A study of the acquisition of procedural knowledge through the application of human learning theory, cognitive behavior modifications, and developmental psychology. Generalization and transfer of this knowledge will be emphasized. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Educational Technology (EDTC)

**EDTC 5310. Introduction to Educational Technology.**

This course provides hands-on experience with a variety of educational uses of microcomputers in early childhood, elementary, middle, and high schools. Review of relevant research and discussion of current issues will also be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5315. Advanced Educational Technology.**

This course deals with both instructional and multimedia design principles. Students will design, implement, and evaluate an extended technology project to solve an instructional problem. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**EDTC 5320. Models of Integration of Educational Technology.**

Students will examine trends and issues related to the integration of technology in instruction based on learning theory, learners' needs, teaching strategies/practices, social and psychological factors, and state/national standards. Prerequisite: EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5325. Managing Educational Technology.**

This course is designed to help the Educational Technologist manage the various needs and technologies in the school setting. Emphasis will be placed on planning for integration and management, hardware issues, software issues, and personnel issues. Prerequisites: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5330. Implementing Technology in Education.**

This course is designed to introduce students to those leadership skills required for implementing technology in an education program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5334. Online Learning and Course Design.**

This course will examine theoretical and research perspectives of learning in an online context. Students will analyze on-line tools in relation to teaching objectives and design an online component to a course they teach. Students will evaluate this online component through an action research project. Prerequisites: CI 5390, EDTC 5310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5335. Instructional Design for Educational Technology.**

This course will focus on the use of instructional design principles in Educational Technology to solve instructional problems. Topics covered include developing teacher training materials, courses, individualized instruction, websites, multimedia projects, workshops, and on-line instruction in the education setting. Prerequisite: EDTC 5310, EDTC 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5340. Issues in Educational Technology.**

This course will provide students with information on current issues and trends to enhance their ability to function effectively as educational technology leaders at the school, district, or agency level. Students will prepare proposals and plans for their internship. May be repeated once for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EDTC 5345. Educational Technology Internship.**

The Educational Technology Internship allows the intern to apply theory into practice in a real world setting. The intern is provided site-based opportunities for applying leadership skills in training teachers to use technology in an educational setting. Graded on a credit (CR), no credit (F) basis. Prerequisite: Within last six hours of coursework

**3 Credit Hours. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**EE 2400. Circuits I.**

This course provides an introduction to the profession of Electrical Engineering and its specialties. Fundamental DC and sinusoidal steady-state circuit analysis techniques include Ohm's law, power, Kirchoff's laws, and Thevenin and Norton equivalent circuits. Prerequisites: MATH 2471

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 2420. Digital Logic.**

An introduction to fundamental computer technologies, including Boolean logic design, logic circuits and devices, and basic computer hardware are studied. Laboratories provide hands-on experience with electricity, combinational and sequential digital circuits, and computer hardware. Prerequisite: CS 1428 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 3340. Electromagnetics.**

Wave propagation, Maxwell's equations, transmission lines, wave guides, and antennas. Prerequisites: MATH 3373 and PHYS 2435 with grades of "C" or higher. Co-requisite: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 3350. Electronics I.**

Analysis and design of active device equivalent circuits with emphasis on transistors, switching circuits, and operational amplifiers. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 3355. Solid State Devices.**

Semiconductor materials, principles of carrier motion, operating principles and circuit models for diodes, bipolar transistors and field-effect transistors. Introduction to integrated circuits. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 3370. Signals and Systems.**

Frequency domain representation of signals and systems and frequency domain concepts for circuit analysis and design. Transfer function and frequency response, Laplace and z-transforms, Fourier series, Fourier transform, and sampling. Prerequisites: EE 3300 or EE 3400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 3400. Circuits II.**

This course includes a brief review of EE 2400, transient analysis, application of Laplace transforms, Bode plots, and network principles. Materials learning in EE 2400 is extended and applied here. Prerequisites: EE 2400 and MATH 3323

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Electrical Engineering (EE)

**EE 3420. Microprocessors.**

Introduction to microprocessors, principles of operation, assembly language programming, timing analysis, and I/O interfacing.

Prerequisites: EE 2420

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**EE 4321. Digital Systems Design Using HDL.**

This course will cover the design of digital systems using HDL including implementation of custom microprocessor and peripheral architectures.

Prerequisite: EE 3420 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4323. Digital Image Processing.**

This course provides the necessary fundamental techniques to analyze and process digital images. It covers principles, concepts, and techniques of digital image processing and computer vision. Prerequisites: CS 1428 and EE 3420 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4350. Electronics II.**

Analysis and design of integrated circuits, feedback, and frequency response. Prerequisites: EE 3350

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4351. Fundamentals of Electroceramics.**

Introduction to binary and ternary phase diagrams, non-centro-symmetric crystal structures and symmetry groups, nonlinear dielectrics (including ferroelectricity, piezoelectricity, pyroelectricity), nonlinear magnetics, oxide wideband gap semiconductors, detectors and sensors, brief introduction to MEMS, radhard electronics, and spintronics technology. Research oriented labs related to materials processing, characterization, fabrication, and testing. Prerequisite: ENGR 2300 or equivalent; Co-requisite: EE 3355; GPA of 2.25 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4352. Introduction to VLSI Design.**

Analysis of design of CMOS integrated circuits. Introduction to CAD tools for VLSI design. Prerequisites: CS 2420, EE 2420, and EE 3350 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4353. Fundamentals of Advanced CMOS Technology.**

Key concepts of advanced semiconductor technology including Moore's law, transition from NMOS to CMOS, CMOS scaling, high-K gate dielectrics, metal electrodes, source/drain scaling technology, new channel materials replacing silicon, and three dimensional device structures. Prerequisite: EE 3355 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4354. Flexible Electronics.**

This course will cover the materials systems, processes, device physics and applications of flexible electronics. The materials range from amorphous and nanocrystalline silicon, organic and polymeric semiconductors to solution cast films of carbon nanotubes. Real device discussions include high speed transistors, photovoltaics, flexible flat-panel displays, medical image sensors, etc. Prerequisites: EE 3350, EE 3355, and EE 4350 with grades of "C" or higher, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 4355. Analog and Mixed Signal Design.**

Operational amplifier design applications, feedback, offset, stability, and compensation. Introduction to random signals and noise, discrete time circuitry analog-to-digital converters, and digital-to-analog converters.

Prerequisites: EE 3370 and EE 4350

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4358. Introduction to Microelectromechanical Systems.**

This course will cover fabrication techniques for microelectromechanical devices and systems as well as provide an introduction to the design of micromechanical transducers. Co-requisite: MFGE 4392

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4370. Communication Systems.**

Transmission of signals through linear systems, analog and digital modulation, filtering, and noise. Prerequisites: EE 3300, EE 3370, and IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4372. Communication Networks.**

Data communication concepts, protocols, algorithms, 7-layer OSI model, physical media, LAN architecture and components, Ethernet, FDDI, TCP/IP, and related standards. Prerequisite: EE 2400 and EE 3420

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4374. Introduction to Wireless Communication.**

Principles, practice, and system overview of mobile systems. Modulation, demodulation, coding, encoding, and multiple access techniques.

Prerequisites: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4376. Introduction to Telecommunications.**

Fundamentals of telecommunications, telephone networks, switching and transmission systems, circuit and packet switching, cell processing, and queuing theory and applications. Co-requisite: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4377. Introduction to Digital Signal Processing.**

Discrete systems, convolution, spectral analysis, and FIR and IIR filter design. Prerequisites: EE 3370

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4378. Data Compression and Error Control Coding.**

Introduction to information theory, information content of messages, entropy and source coding, data compression, channel capacity data translation codes, and fundamentals of error correcting codes. Corequisite: EE 4370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**EE 4390. Electrical Engineering Design I.**

This course is a team-based design of a system or component, which will include oral presentations and written reports. Prerequisites: EE 3350, EE 3370, and EE 3420 with grades of "C" or higher. Co-requisites: EE 4352 or EE 4370. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**EE 4391. Electrical Engineering Design II.**

Advanced team-based design of a system or component, which will include oral presentations and written reports. Prerequisites: EE 4390. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**EE 4399A. Dynamic Data Acquisition and Analysis.**

Methods for acquiring and analyzing dynamic (time-varying) data. Frequency domain analysis, analog-to-digital conversion, windowing, and digital filtering taught in the context of various industrial applications. Prerequisite: EE 3370 Signals and Systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 4399B. Overview of Information Theory and Coding.**

Fundamentals of Information Theory, Huffman coding, image encoding techniques, Hamming and BCH error control codes, Reed-Solomon coding, convolutional codes and the Viterbi decoding algorithm

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5320. Advanced Computer Architecture and Arithmetic.**

This course teaches design and analysis of high-performance computer systems, focusing on quantitative analysis of the latest processors and compilers. Current processor architectures are surveyed for system design. Topics include instruction sets, parallelizing architectures, pipelining, I/O, memory and cache organization, parallel/vector processing, fast arithmetic units design, and implementation using HDL. Prerequisites: EE 3420 and CS 3339 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5323. Digital Image Processing.**

This course provides the necessary fundamental techniques to analyze and process digital images. It covers principles, concepts, and techniques of digital image processing and computer vision. Prerequisites: EE 3420, CS 2308, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5330. Embedded and Real-Time Computing.**

This course teaches development of embedded computing systems with strong resource constraints. Key concepts include managing constrained memory and processing speed limitations, and programming for soft and hard real-time constraints. Students will learn use of a Real-Time Operating System (RTOS). Prerequisites: EE 3420 and CS 3339, or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5350. Advanced Electronic Circuit Design.**

This course includes low and high power RF amplifier design techniques, oscillators, FM demodulators, limiters, and mixer design. Additional topics include circuit design to minimize intermodulation and other forms of distortion, and RD and high-speed analog circuits with emphasis on digital-friendly applications. Prerequisite: EE 4350 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5355. Electronic Materials and Devices.**

This course covers theoretical concepts applicable to the understanding of unique properties exhibited by electronic materials, especially by dielectrics, oxide semiconductors, ferroelectrics, pyroelectrics, piezoelectrics, magnetic, and multifunctional and multiferroic materials. The various microelectronic devices and modern novel technologies based on these materials are emphasized. Prerequisite: EE 3350, or equivalent, with a grade of B or higher, or approval of instructor.

Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5360. Thin Film Technology.**

This course covers the theoretical and practical aspects of thin film technology in modern devices. The design and fabrication of thin film heterostructures is discussed. Growth and nucleation of epitaxial thin films with diverse properties and devices with combined properties will be emphasized. Prerequisite: EE 3350 or equivalent, with a grade of B or higher, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5372. Advanced Networking.**

This course develops important theoretical and application topics related to advanced networking. Theoretical topics are introduced using mathematical treatments, including queuing theory and some random processes. The course includes applications of these topics to communications networks, and focuses on architectures, applications and technologies which affect modern computer and data networks. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5374. Introduction to Wireless Communication.**

This course teaches principles and practices in designing and analyzing cellular and other wireless communication systems. Topics include RF propagation modeling, fast and slow fading, modulation, demodulation, coding, and multiple access techniques. Prerequisite: EE 4370. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5377. Statistical Signal Processing.**

This course develops the theory and applications of random processes using mathematical treatments, including elementary discrete and continuous time linear systems theory, elementary probability, and transform theory. Topics include applications of random processes to information and communication theory, estimation and detection, control, signal processing, and stochastic systems theory. Prerequisite: ENGR 5310 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5385. Optoelectronic Devices.**

This course introduces the student to the concepts, physical operations, and design criteria of state-of-the-art optoelectronic devices and systems used in research, technology, medicine, communication, and other modern applications. Prerequisites: EE 3355, EE 4350, or equivalent, with a grade of C or higher; or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**EE 5398A. Antenna Theory, Design and Applications.**

This course covers the basic theory, design and applications of antennas. The topics include antenna radiation, fundamental parameters of antennas, linear wire antennas, loop antennas, antenna arrays, long-periodic antennas, horn antennas, microstrip antennas and modern nano-antennas. Restricted to students enrolled in the MS Engineering program. Prerequisite: EE 3340 or EE 3370 (or an equivalent) with a grade of "C" or higher, or Instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398B. Electronic Materials and Beyond for Sustainable Energy.**

This course covers the basic science and technology for sustainable energy from the view of materials, where electronic materials are highly emphasized. The topics include solar cells, thermoelectrics, batteries, supercapacitors, artificial photosynthesis, fuel cells, biomass and nuclear energy. Restricted to students enrolled in MS Engineering program.

Prerequisite: EE 3355 or equivalent, with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398C. Multimedia Signal Processing.**

This course covers theory and applications of digital signal processing to multimedia signals, including speech, audio, image, and video. Key concepts and algorithms are discussed first, followed by a review of relevant industry standards. Hardware architectures and real-time implementation concepts appropriate for multimedia signals are also included. Restricted to students enrolled in MS Engineering program. Prerequisites: EE 3370 (or equivalent) and EE 4377 or EE 4323 (or an equivalent), or Instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**EE 5398D. Electroceramics.**

This course covers binary and ternary phase diagrams, non-centrosymmetric crystal structures and symmetry groups, nonlinear dielectrics (ferroelectricity, piezoelectricity, pyroelectricity), nonlinear magnetics, oxide wideband gap semiconductors, detectors and sensors, introduction to MEMS, radhard electronics, and spintronics technology. Labs and additional research-oriented instruction are related to materials processing, characterization, fabrication, and testing. Restricted to students enrolled in the MS Engineering program. Prerequisite: EE 3355 with a grade of B or higher, or Instructor's Approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Engineering (ENGR)

**ENGR 1313. Engineering Design Graphics.**

An introductory communications course in the tools and techniques utilized to produce various types of working drawings. Principles of multiview projections, geometric relationships, shape and size description, and pictorial methods are included with emphasis on technical applications and design problem solving

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 2300. Materials Engineering.**

Structure, properties and behavior of engineering materials including metals, polymers, composites and ceramics. Mechanical, electrical, magnetic, thermal, and optical properties are covered. Prerequisites: CHEM 1341 or CHEM 1335; CHEM 1141

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ENGR 3190. Cooperative Education.**

This course provides special problems in engineering for cooperative education students. Problems are related to the student's work assignment and culminate in a technical report. Three hours may be used as technical elective, and one additional hour may be used as free elective; 4 hours may be used toward graduation. Prerequisite: Overall GPA 2.5 or above and approval of department head

**1 Credit Hour. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ENGR 3311. Mechanics of Materials.**

This course covers the principles of mechanic materials and includes the following topics: stress and strain; elastic modulus and Poisson's ratio; constitutive equations; torsion; bending; axial, shear and bending moment diagrams; deflection of beams; and stability of columns.

Prerequisite: ENGR 3375 or MATH 3375

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3315. Engineering Economic Analysis.**

Interest formulas, economic equivalence, rate of return analysis, techniques of economic analysis for engineering decisions and an introduction to cost estimation. Prerequisite: MATH 1315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 3360. Structural Analysis.**

Structural engineering fundamentals to include design loads, reactions, force systems, functions of a structure, and the analysis of statically determinate and indeterminate structures by classical and modern techniques. Prerequisite: ENGR 3311

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3373. Circuits and Devices.**

DC and AC circuit analysis, network theorems, electromechanical devices, electronic devices and an introduction to amplifiers, oscillators and operational amplifiers. Prerequisite: PHYS 2425

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ENGR 3375. Mechanics for Engineers.**

This course covers statics, using a vector approach to mechanics.

Prerequisite: PHYS 1430. Co-requisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 4390. Internship.**

Supervised on-the-job professional learning experience in engineering and other technical areas. This course provides practical work experience in their particular field of interest

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 4395. Independent Studies in Engineering.**

Open to undergraduate students on an independent basis by arrangement with the faculty member concerned. Requires school director's approval. Repeatable for credit with different emphasis.

Prerequisite: junior or senior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**ENGR 5100. Seminar in Engineering.**

Graduate students attend seminars by invited speakers presenting relevant topics in academia and industry. The schedule of speakers will be developed each semester with strict faculty supervision. This course may only be taken for credit one time. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5101. Academic Instruction for Engineering Graduate Assistants.**

This course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit, and is graded on a credit (CR), no-credit (F) basis. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENGR 5198B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5298B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**ENGR 5301. Academic Instruction for Engineering Graduate Assistants.**

This course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit, and is graded on a credit (CR), no-credit (F) basis. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**ENGR 5310. Probability, Random Variables, & Stochastic Processes for Engineers.**

This course develops theory underlying analysis and design of systems. Fundamental distributional concepts, applications of statistical methods, and theory of stochastic processes are introduced to create a foundation for mathematical analysis of physical systems involving randomness. Applications to engineering topics are taught, including estimation, control, and systems theory. Prerequisite: IE 3320 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 5384. Problems in Engineering.**

Graduate students investigate a special topic by developing a technical problem, researching the topic, and presenting the findings. Plans will be developed on an individual basis with strict faculty supervision. This course may be repeated once for additional credit with permission of the School Director. Restricted to students enrolled in the MS Engineering program and with approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENGR 5398A. Project.**

This course represents a student's initial project enrollment. No project credit is awarded until the student has completed the project in ENGR 5x98B. This course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5398B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the theses is completed in ENGR 5x99B. This course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5598B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5998B. Project.**

This course represents a student's continuing project enrollments. The student continues to enroll in this course until the project is completed. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENGR 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. The course is graded on a credit (CR), progress (PR), no-credit (F) basis. Registration requires Approval of Committee. Restricted to students enrolled in the MS Engineering program

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## English (ENG)

**ENG 1300. Developmental Writing.**

Basic composition skills. For students who have not satisfied TSIP requirements or for those who need developmental work before taking English 1310. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial

**Grade Mode:** Developmental

**ENG 1310. College Writing I.**

Expository writing as a means of exploring and shaping ideas. Emphasis on critical reading and the improvement of essays through revision

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010

**Grade Mode:** Standard Letter

**TCCN:** ENGL 1301

**ENG 1320. College Writing II.**

Continuation of English 1310. Expository writing as a means of analyzing and understanding texts. Research paper required. Requirements in sophomore English must be completed before a student takes any advanced work in English

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010

**Grade Mode:** Standard Letter

**TCCN:** ENGL 1302

**ENG 2310. British Literature before 1785.**

Representative authors and works of British literature from the beginnings through the Neoclassical Period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2322

**ENG 2320. British Literature since 1785.**

Representative authors and works of British literature from the Romantic Period to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2323

**ENG 2330. World Literature before 1600.**

Representative authors and works of literature from the ancient world to the early modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2332

**ENG 2340. World Literature since 1600.**

Representative authors and works of literature from the modern world. Readings may come exclusively from the Western tradition or from various literary traditions, such as those of Africa and Asia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2333

**ENG 2359. US Literature before 1865.**

Course surveys representative authors and works of US literature from the beginnings to the Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2327

**ENG 2360. US Literature since 1865.**

Course surveys representative authors and works of US literature from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090

**Grade Mode:** Standard Letter

**TCCN:** ENGL 2328

**ENG 3301. Critical Theory and Practice for English Majors.**

Course introduces the critical theories underpinning rhetorical and literary analysis within various branches of English Studies and develops the skills of reading, writing, and research. Required for majors and open to minors; must be taken in the first semester of upper division classes. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3302. Film and Video Theory and Production.**

The study of film and narrative theory combined with the practice of videography and video editing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3303. Technical Writing.**

The study and practice of expository writing in technical and scientific professions. Emphasis on planning, writing, revising, editing, and proofreading proposals, reports, and other forms of professional communication for a variety of audiences. Computer technology included. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3304. Professional Writing.**

The principles of expository writing adapted for the workplace. Prepares students in non-technical fields to write documents commonly used in professional settings. Students compile a writing portfolio suitable for a job search or for application to professional school. Computer technology included. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3306. Writing for Film.**

This course is an introduction to screenwriting that combines the study of published film texts with workshop practice in writing for film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3307. Introduction to the Study of Film.**

An introduction to various theoretical approaches to the study of film and to important debates within film theory. Focus will include, but is not limited to, (1) theories of spectatorship, (2) the debate between formalism and realism, (3) psychoanalytic and feminist theories, and (4) cultural approaches to film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3308. Advanced Topics in Film.**

Course offers a focused examination of film as text, with an emphasis on critical, theoretical, cultural, historical, and stylistic aspects. Topics may include history of classical Hollywood cinema; silent film; world, European, or national cinemas; or the documentary. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3309. The Southwest in Film.**

A survey of films of the Southwest, emphasizing the history and cultural diversity of the region as represented on screen. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3311. Practices in Writing and Rhetoric.**

Study and practice of advanced expository writing, with focus on achieving clarity and readability. Recent emphases have included The Essay, Nature Writing, Argument, Writing for the Government, Online Communication. May be repeated once for credit when emphasis varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3312. Internship in English Studies.**

Course offers a supervised work experience related to students' career interests. Junior and senior majors are eligible with permission of the Director of Internships. Prerequisites vary with the internship and will be determined by the Director in consultation with faculty

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 3313. Software Documentation for Computer Science Majors.**

A companion to CS 3398, covering the composition techniques, including planning, organization, revision, standard language use, and audience identification problems necessary for producing the required documents and reference manuals for software documentation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3315. Introduction to Creative Writing.**

A critical seminar for writers of fiction, poetry, and articles. Creativity, criticism, and revision are emphasized. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3316. Film Studies.**

Comparative study of films and/or novels adapted to films. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3318. Approaches to Writing and Rhetoric.**

This course focuses on approaches central to the study and practice of writing and rhetoric. Emphases vary but might include Composition Theory, Theories of Technical Communication, Chicano/a Rhetorics, Literacy Studies. Repeatable with different emphases for up to 9 hours of English credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3319. The Development of English.**

Origin and growth of the English language with particular attention to phonological, morphological, and grammatical changes; history of dialects, spelling, and dictionaries; sources of vocabulary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3320. Theory and Criticism.**

A study of theoretical and critical approaches, from Aristotle to the present, applied to literary and visual texts. Repeatable once when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3321. The Short Story.**

The short story throughout the world since Poe and Gogol. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3322. The European Novel.**

Major continental novelists from Cervantes to the present, read in translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3323. Modern Poetry.**

Modern poetry in English and English translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3325. Russian Literature in Translation.**

An examination of major 19th and 20th century works of Russian literature, in translation, from three points of view: their literary value (use of language, style, characterization, theme, structure, techniques); their relation to and influence on European literature; and their illumination of Russian culture and history. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3326. American Drama on Film.**

Masterpieces of American drama and the films which have been made from them

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3327. Types of World Drama in English.**

Examples of world drama and film adaptations from Aeschylus to Ibsen. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3328. Types of World Drama in English (Modern).**

Significant examples of world drama in English from Ibsen to O'Neill, Williams, and Miller. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3329. Mythology.**

Study of myths in ancient cultures, mythic patterns in modern literature, and Hollywood as mythmaker. Repeatable once, in special situations, when topic varies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3331. Literature of Black America.**

African-American poetry, drama, and fiction. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3333. Early US Literature.**

Course surveys US literature from its colonial beginnings to 1865. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3335. US Literature 1865-1930: The Rise of Realism, Naturalism, and Modernism.**

Course surveys US literature from the Civil War to 1930. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3336. US Literature, 1930 to the Present: From Modernism to Contemporary Forms.**

Course surveys US literature from 1930 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3338. The American Novel.**

A study of the novels and pertinent criticism from the beginnings in America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3340. Special Topics in Language and Literature.**

A study of the novels and pertinent criticism from the beginnings in America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3341. Studies in World Literature.**

Selections from ancient and modern literature in western and/or non-western cultures. Repeatable once, in special situations, when topic varies. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3342. Editing.**

A study of editing, to include instruction in making editorial changes, preparing MSS for typesetter, marking galley and page proof; fundamentals of layout and design (typeface, paper, headlines, etc.); problems and possibilities in desktop publishing; and the current status of electronic publications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 3343. The Interdisciplinary Approach to Literature.**

The study of a single author, e.g. Saul Bellow, Charles Dickens, Flannery O'Connor, or Virginia Woolf, from an interdisciplinary perspective.

Repeatable once, in special situations, when topic varies. (WI) 3344

Chicano/a Narrative and Social History. (3-0) A survey of narrative

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3344. Chicano/a Narrative and Social History.**

A survey of narrative written by U.S. citizens of Mexican descent. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3345. Southwestern Studies I: Defining the Region.**

The first of two courses in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest that emphasizes regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy and politics. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3346. Southwestern Studies II: Consequences of Region.**

The second of a two-course sequence in a broad interdisciplinary survey of geophysical, cultural, social, literary, and political history of the Southwest, emphasizing regional and ethnic expressions of culture in architecture, art, economics, law, literature, philosophy, politics, popular culture, religion, social science, and technology. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3347. American Poetry.**

Study of American poetry from its beginnings to present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**ENG 3348. Creative Writing: Fiction.**

A seminar for writers of fiction, with emphasis on creativity, criticism, and revision. Prerequisite: ENG 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3349. Creative Writing: Poetry.**

A seminar for writers of poetry, with emphasis on creativity, criticism, and revision. Prerequisite: ENG 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3350. Medieval European Literature.**

Studies of Medieval contexts, genres, and writings across Europe. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3351. Anglo-Saxon Language, Literature, and Culture.**

An introduction to Old English life and writings from early culture through Beowulf (texts in modern translation). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3352. Medieval English Literature.**

Studies of important non-Chaucerian writings in the Middle Ages, some in modern translations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3353. British Poetry and Prose of the Sixteenth Century.**

Major poets and prose writers from More to Spenser. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3354. Shakespeare.**

Selected plays from the earliest through Hamlet. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3356. British Poetry and Prose of the Seventeenth Century.**

Prose and poetry from Donne and Bacon to Milton and Dryden. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3357. British Literature of the Restoration and Augustan Periods, 1660-1750.**

Course explores development of classicism through Pope and Swift. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3359. British Literature, 1750-1800.**

Course explores the decline of classicism and the Romantic beginning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3362. The British Romantics.**

Course explores British poetry and prose of the Romantic Age. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3365. Victorian Literature.**

Developments in Victorian poetry and prose as these apply to the student's cultural background. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3368. The British Novel.**

Course explores British prose fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3370. Twentieth-Century British Literature.**

Selected poetry, fiction, and drama since 1900. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3385. Children's Literature.**

A survey of traditional and contemporary literature for children with attention to literary history, aesthetic qualities, and critical approaches. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3386. Adolescent Literature.**

A survey designed to provide a critical philosophy and working repertoire of literature for adolescents. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3388. Women and Literature.**

A survey of women's writing in English, in various genres, over a period of some 600 years (14th century to the present). (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**ENG 3389. The Discipline of English.**

The nature of English studies as a formal field, its components and their relationships. Open only to candidates with 90 semester credit hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**ENG 3390. Problems in Language and Literature.**

Independent study with individualized reading list, research project, and tutorial sessions, focused on a special problem in language and/or literature. May be taken only with permission from the Chair of the Department of English, the Director of Advanced Studies, and the assigned professor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3392. Women Writers of the Middle Ages.**

Religious and secular writings by women from the early Church through the 15th century. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 3393. Introduction to Canadian Literature.**

An introduction to Canadian literature with discussion of aesthetic, cultural, and political issues surrounding it. Texts will be Anglophone and Francophone in translation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4310. Modern English Syntax.**

A study of English syntax as described by traditional, structural, and transformational grammarians, with major emphasis on transformational generative syntax

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 4323. Studies in Autobiography and Biography.**

Selected works in autobiography and biography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4325. Literature of the Southwest.**

The literature of Texas and the surrounding territory; various types of non-fiction prose, fiction, and poetry. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4334. US Romanticism.**

Course explores the US Romantic movement of the 19th century, with consideration of important authors, intellectual backgrounds, and literary relationships. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4348. Senior Seminar in Fiction Writing.**

Workshop in writing fiction and evaluating manuscripts. Students produce portfolio of creative work. Prerequisite: ENG 3348. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4349. Senior Seminar in Poetry Writing.**

Workshop in writing poetry and evaluating manuscripts. Students produce portfolio of creative work. Prerequisite: ENG 3349. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4350. Senior Seminar in Film.**

Course integrates perspectives from English film and media studies, including film criticism, history, theory, screenwriting, and practical video skills. Each student will choose a focus, and all students will critique scholarly research, screenplays, and video projects that demonstrate concepts learned. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4351. Chaucer and His Time.**

The works of Chaucer and their significance in an important literary and social era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4355. The Later Shakespeare.**

The problem comedies, through the tragedies, to the plays of the final years; emphasis on reading in depth the plays, significant critical materials, and selected plays by Shakespeare's contemporaries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4358. Milton.**

Milton's longer poems and most important prose writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 4385. Advanced Studies in Children's or Adolescent Literature.**

This course studies children's or adolescent literature. Possible topics include a historical period, a geographical area, a genre, a single author, or a theoretical approach, with attention to developing critical and research skills. Repeatable with different emphases for up to six hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ENG 5199B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5299B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5301. Literary Scholarship.**

An introduction to scholarly resources, methods, theories, and responsibilities that guide the study and interpretations of literature in English. Literary texts chosen for detailed examination vary with expertise of the instructor. Required in first year of M.A. with a Literature Major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5302. Media Studies.**

The study of film and media history, theory, and practice. Special topics may include videography, video editing, genre, filmmakers, and regional film

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5310. Studies in English Language and Linguistics.**

A study of the English language, with special attention to phonology, morphology, syntax, semantics, dialectology, sociolinguistics, normal language acquisition, and/or writing and spelling systems. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5311. Foundations in Technical Communication.**

An introduction to the theory and practice of technical communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5312. Editing the Professional Publication.**

The editing, design, layout, and proofreading of a professional publication. This course is an internship. Graded on a credit (CR), no credit (F) basis. May be repeated one time with different emphasis

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5313. Studies in Principles of Technical Communication.**

A group of courses that provide students theoretical and practical information useful in any position in technical communication. Recent emphases include Digital Media and the web, Technical Editing, and Visual Rhetoric. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5314. Specializations in Technical Communication.**

A group of courses that provide students theoretical and practical information for specialized types of technical communication. Recent emphases include International Technical Communication Proposal Writing, Software Documentation and Writing for the Government. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5315. Graduate Writing Workshop.**

A studio course in which the primary texts are student manuscripts. Concentrations in fiction or poetry examine principles and techniques of creating, evaluating, and revising writing in these genres. The course requires class members to review writing produced by other workshop members. 12 hours of M.F.A. credit required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5316. Foundations in Rhetoric and Composition.**

A group of courses providing students with theoretical, pedagogical, and methodological foundations in the field of rhetoric and composition.

Emphases vary but include Contemporary Composition Theory and Composition Pedagogy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5317. Specializations in Rhetoric and Composition.**

A group of courses providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Center Theory, Practice, and Administration; Writing Across the Curriculum; Service Learning; and Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5318. Effective Communication (Writing).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on writing. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5319. Effective Communication (Reading).**

An interdisciplinary study of communication in which the student learns to interrelate reading, listening, and writing. Emphasis on reading. Credit applies only to degrees in Interdisciplinary Studies; no credit for English graduate degrees

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5320. Form and Theory of Fiction.**

An examination of traditional and current theory and practice in fiction. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of fiction in other literatures. For M.F.A. credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5321. Contemporary Fiction.**

Readings selected from canonical and/or experimental fiction. Recent emphases include novels into film, postmodern fiction, Magical Realism, and Saul Bellow. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5322. Form and Theory of Poetry.**

An examination of traditional and current theory and practice in poetry. Major emphasis will be placed on the British/American tradition, but some attention will be given to the practice and theory of poetry in other literatures. For MFA credit only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5323. Studies in Autobiography and Biography.**

A study of selected works in autobiography and biography with special attention to the art forms used in these works. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5324. Studies in Literary Genre.**

A study of one or more literary genres over several historical periods or from a variety of cultural perspectives. The course focuses on genres such as the following: the epic, the novel, the short story, the lyric, the pastoral, the romance, and Irish comic fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5325. Studies in Literature of the Southwest.**

Selected Texas and Southwestern writers with emphasis on fiction. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5327. Research Methods in Rhetoric, Composition, and Technical Communication.**

An introduction to research practices in rhetoric, composition, and technical communications, focusing on the paradigms/perspectives, strategies, and methods that characterize qualitative and quantitative research in these areas. Includes discussion of the history and role of research in the field, research ethics, and issues of representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5328. Directed Portfolio.**

Constitutes partial fulfillment of non-thesis option for students earning the MA in Rhetoric and Composition. Under guidance of a graduate faculty committee, students produce a portfolio of representative written work with written commentary and reflection. Departmental approval required. Graded as credit (CR), progress (PR), no-credit (F). Repeatable once

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5331. Studies in American Poetry.**

Selected poets with a survey of their works. Recent emphases include Walt Whitman, Emily Dickinson, Southern poetry, Denise Levertov, and Robert Bly. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5332. Studies in American Prose.**

Selected authors with special attention to novels. Recent emphases include William Faulkner, Ernest Hemingway, Richard Wright, and Zora Neale Hurston. Repeatable with different emphases for up to nine hours of English credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**ENG 5345. Southwestern Studies I: Defining the Region.**

An interdisciplinary course that surveys the physical, cultural, and social history of the Southwest, emphasizing architecture, art, literature, philosophy, politics, popular culture, and technology. Historical focus from the 15th to the mid-19th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5346. Southwestern Studies II: Consequences of Region.**

Second course in a survey of physical, cultural, and social history of the Southwest, emphasizing regional and ethnic expressions of culture. This course moves from the broad overview of the first semester to more specific problems in the region and to the artistic products of regional culture. Historical focus is from the Civil War to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5353. Studies in Medieval Literature.**

Emphasis on authors, contexts, and genres of the medieval period. Recent emphases include Anglo-Saxon culture, language, and literature; Chaucer; non-Chaucerian medieval literature; pilgrimage literature.

Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5354. Studies in Renaissance Literature.**

Emphasis on authors, contexts, and genres of the Renaissance. Recent emphases include Shakespeare, Renaissance epic, Tudor humanism, and John Milton. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5359. Studies in Restoration and Eighteenth-century Literature.**

Major writers of the period with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Johnson and his circle, Restoration and eighteenth-century drama, and the eighteenth-century novel. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5364. Studies in the Romantic Movement.**

The works of the Early Romantics or Late Romantics in context with attention to nineteenth- and twentieth-century scholarship. Recent emphases include Blake and the other arts, Coleridge, the Wordsworths, Shelley, and Keats. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5366. Studies in Victorian Poetry.**

Major Victorian poets with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include Tennyson, the Brownings, the Pre-Raphaelites, and Hopkins. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5368. Studies in Victorian Prose.**

Major Victorian prose writers with emphasis on scholarship and aesthetics as well as cultural and historical background. Recent emphases include George Eliot, non-fiction Victorian prose, Victorian women novelists, and Charles Dickens. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5371. Studies in Modern British Literature.**

Selected authors with a survey of their works. Recent emphases include Yeats, Wilde, Auden, and Post-World War II British poetry. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5372. Practicum in English Studies.**

An introduction to key issues and concepts in the teaching of English studies. Required for first-year instructional assistants in the English Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5381. Studies in Modern British and American Drama.**

A survey of major British and American dramatists and their European or world context. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5382. Practicum in Composition.**

An introduction to key issues and concepts in the teaching of expository writing at the college level. Required for first-year teaching assistants in the English Department who have not previously taken ENG 5372. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ENG 5383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5384. Critical Theory.**

A study of critical theory, emphasizing the history of criticism and/or contemporary critical theories. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5388. Studies in Literature for Children or Adolescents.**

A study of contemporary works, extending the student's knowledge of the literature and criticism in the field. Typical emphases are generic and/or thematic and include picture books, the contemporary novel, and the children's classics on film. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5389. History of Children's Literature.**

The history of children's literature from the Middle Ages through 1940. May be repeated with different emphases for up to six hours of graduate credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5390. Special Problems.**

Independent study under supervision of a graduate faculty member in English, with in-depth readings and research focused on a special problem in literature and/or language. May be taken only with permission from the assigned professor, the graduate director, and the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5391. Directed Studies in English.**

Students will conduct studies as necessary preparation for graduate-level coursework in English. The nature of the work varies depending on the student's level of academic preparation. This course does not earn graduate credit. Repeatable up to 12 hours with different emphasis. Prerequisite: Approval of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ENG 5395. Problems in Language and Literature.**

Recent emphases include literary technique and literary theory. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 5399A. Thesis.**

First semester of thesis enrollment. No thesis credit awarded until student has completed the thesis in English 5399B. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit



**ENG 5399B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5599B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 5999B. Thesis.**

Continuing thesis enrollment until the thesis is submitted for binding. Departmental approval required. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Graduate College approval of thesis proposal

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ENG 7300. Language Problems in a Multicultural Environment.**

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7314. Specializations in Professional and Technical Communication Topics.**

Provides theoretical and practical information for specialized types of technical and professional communication

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7316. Foundations in Rhetoric and Composition.**

A course providing students with theoretical, pedagogical, and/or methodological foundations in the field of rhetoric and composition. Emphases vary but may include Contemporary Composition Pedagogy, Basic Writing Theory and Practice, and Writing Assessment. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7317. Specializations in Rhetoric and Composition.**

A course providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Across the Curriculum, Service Learning, Writing Center Theory and Practice, Computers and Writing, Literacy. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7326. Contemporary Composition Theory.**

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ENG 7383. Studies in Rhetorical Theory.**

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Exercise and Sports Science (ESS)

**ESS 1100. Lifetime Fitness and Wellness.**

This course introduces students to the concepts of health-related physical fitness. Emphasis is placed on learning how to teach these concepts. Students will design and implement an exercise program for enhancing health-related physical fitness. Restricted to majors or minors in Exercise and Sports Science, Athletic Training, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1128. Aquatic Therapy.**

The course addresses basic principles and concepts of aquatic therapy and aquatic emergency management. This course prepares students for the American Red Cross Basic Water Rescue Certification

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1172. Beginning Field Sports.**

This course prepares students to become proficient instructors of field sports, including softball and soccer. Emphasis is on skill development, instructional practices, peer coaching, rules, terminology, offensive and defensive strategies, team organization, game play, referee skills, skills assessment, and conditioning for field sports. Restricted to majors or minors in Exercise and Sports Science, Coaching, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1175. Beginning Jogging and Conditioning.**

This course presents the proper biomechanics of jogging, safety rules, and conditioning principles relevant to the activity. Course topics include warming-up and cooling-down, hydration, monitoring and modifying intensity, training for road races, and jogging-related injuries. Students will also learn how to train individuals entering into a jogging program. Restricted to majors or minors in Exercise and Sports Science or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1176. Beginning Tennis, Badminton, and Other Racket Sports.**

This course prepares Exercise and Sports Science majors to be proficient instructors of racket sports, including tennis and badminton. The emphasis is on the fundamentals of racket sports and program development for the beginner. Restricted to majors or minors in Exercise and Sports Science, Health and Fitness Management, or Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 1177. Beginning Track and Field.**

This course prepares students to become proficient instructors of track and field. Emphasis is on skill development and instructional practices, rules, terminology, team organization, communication, athlete selection, and event-specific conditioning for track and field. Prerequisite: Major or minor in Exercise and Sports Science or minor in Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1178. Beginning Volleyball and Basketball.**

This course prepares students to become proficient instructors of volleyball and basketball. Emphasis is on skill development, instructional practices, peer coaching, rules, terminology, offensive and defensive strategies, team organization, communication, game play, referee skills, skills assessment, and conditioning for volleyball and basketball. Restricted to majors or minors in Exercise and Sports Science, Health and Fitness Management, or Coaching

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1179. Beginning Weight Training.**

This course prepares students to be proficient instructors of all forms of resistance training. Emphasis is on understanding the proper, safe, and effective techniques of weight lifting. Students will learn how to develop resistance-training programs for untrained individuals with a variety of conditions. Restricted to majors or minors in Exercise and Sports Science, Athletic Training, or Health and Fitness Management

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1192. Beginning Balance and Tumbling.**

This course prepares students as proficient instructors of the basic fundamentals of balance and tumbling. Emphasis is on the teaching of progressions, skills, and routines. Students will learn and practice safe teaching techniques for spotting in selected balance and tumbling skills. Prerequisite: Major seeking All-Level Teacher Certification in Physical Education

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 1201. Group Exercise Instructor Training.**

This course is for students interested in becoming certified group exercise instructors. Students will learn how to safely and effectively conduct group exercise classes. Students will be trained to teach a variety of formats, such as high- and low-impact aerobics, step aerobics, kickboxing, yoga, and resistance training. Prerequisite: Major in Health and Fitness Management or consent of the instructor

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 1310. Introduction to Teaching Physical Education.**

This course is designed to provide pre-service physical educators an introduction to fundamental principles of teaching physical education in K-12 settings. Progressive steps in developing a basic understanding of pedagogical skills, physical education curriculum, and professional attributes needed to pursue the teaching profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 2320. Motor Development.**

This course provides the exercise science and physical education student with a knowledge base in the study of changes in motor behavior across the lifespan, the processes that underlie these changes, and factors that affect them. Prerequisite: Major or minor in Exercise and Sports Science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3117. Laboratory in Exercise Physiology.**

In this laboratory course, students perform experiments that highlight the physiological responses to exercise. This course also introduces students to basic techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. Co-requisite: ESS 3317. An overall GPA of 2.5 or higher is required

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3303. Assistant Dive Instructor.**

This course provides students with the technical knowledge necessary to prepare for the Assistant Diver Instructor Scuba Certification. Topics include advanced diving physiology, air station operations, assisting instructors with beginning open-water dive students, and boat diving operations. Prerequisite: PFW 1201

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3304. Divemaster.**

This course provides students with the technical knowledge necessary to prepare for the National Association of Underwater Instructors Divemaster Scuba Certification. Topics include advanced diving physiology, organizing open-water dives, air station operations, assisting instructors with beginning and advanced open-water dive students, and boat diving operations. Prerequisite: Assistant Instructor Certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3317. Exercise Physiology.**

Students learn the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, performance improvement through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. An overall GPA of 2.5 or higher is required. Co-requisite: ESS 3117

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ESS 3320. Biomechanics.**

This course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452, with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3321. Teaching Elementary Children Physical Activity.**

This course introduces students majoring in Elementary Education and/or Exercise and Sports Science to physical education knowledge and movement concepts. It provides innovative techniques for incorporating physical activity within the elementary school setting. The course presents theory and then guides the students in applying those theories in a practical way

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3323. Psychosocial Aspects of Exercise and Sport Science.**

This course examines the psychological and social theories and research related to physical activity. Emphasis is on the determinants that influence exercise behavior and sport participation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3325. Applied Assessment of Physical Activity.**

This course is designed to provide students with a theory to practice approach in the assessment of physical activity within the physical education setting. Particular emphasis is placed on empowering students to use relevant and meaningful physical activity assessments in K-12 schools. Prerequisites: ESS 1310 and ESS 2320. Restricted to majors seeking all level Teacher Certification in Physical Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3329. Motor Learning.**

This course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation.

Prerequisite: Overall GPA of 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 3340. Theory and Principles of Coaching.**

This course examines the theories and principles of effective coaching, including philosophy, ethics, strategies, team motivation and organization, coach-athlete relationships, performance analysis, and the administration of facilities, personnel, and contests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4317. Fitness Assessment and Exercise Prescription.**

Students are presented with current information on fitness assessment and exercise programming for individuals of all ages and fitness levels. Emphasis is placed on preparation for multiple certifications offered by relevant professional organizations. Prerequisites: ESS 3117 and ESS 3317; BIO 2430, or BIO 2451 and BIO 2452, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4318. Fitness Assessment and Exercise Prescription Practicum.**

During this 120-hour practicum, students will acquire advanced knowledge and skills associated with appraising health risk, assessing fitness levels, and designing exercise programs for diverse populations through on-line, classroom, and laboratory settings as well as through field-based experiences by working in a variety of exercise venues.

Prerequisites: BIO 2430, or BIO 2451 and BIO 2452; ESS 3117 and ESS 3317, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4319. Clinical Exercise Physiology.**

Students gain a thorough understanding of the health appraisal/risk assessment, exercise testing, and exercise programming guidelines for clinical populations. In addition, basic electrocardiography and cardiopulmonary pathology and pharmacology are introduced.

Prerequisites: ESS 3117 and ESS 3317; BIO 2430, or BIO 2451 and BIO 2452, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 4320. Resistance Training and Conditioning.**

This course discusses the development and evaluation of training principles and programs for diverse populations. Emphasis is placed on physiological adaptations and mechanical principles related to the application of resistance training. Prerequisites: BIO 2430, or BIO 2451 and BIO 2452; ESS 3317 and ESS 3117, all with grades of "C" or higher. An overall GPA of 2.5 or higher is required

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 4323. Adapted Physical Education.**

This introductory course provides All-Level teacher certification candidates in Exercise and Sports Science with content knowledge on legal mandates, evidence-based practices, and the characteristics of selected disabilities and their considerations when designing meaningful individualized physical activity experiences to meet the students with disabilities in school settings. Prerequisites: ESS 1310, ESS 2320 and 2.75 overall GPA. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ESS 4324. Adapted Physical Activity.**

This course introduces students to the field of adapted physical activity, including sport and leisure for persons with disabilities. This course provides content knowledge on how to instruct physical activities to individuals with unique needs in various settings. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ESS 4337. Independent Study in Exercise and Sports Science.**

This course is for students who are interested in research related to Exercise and Sports Science. Students develop a research study, collect data, and analyze the results. Repeatable for credit with different emphasis. Prerequisites: A minimum GPA of 3.00 and special approval

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**ESS 4340. Internship in Coaching.**

This 220-hour internship provides students with work-related experience. Students will strengthen their coaching-related knowledge, skills, and abilities by observing and shadowing coaches as well as assisting with a range of tasks, including training athletes, managing the facilities, and organizing practices. Prerequisites: completion of all coursework required for the minor in Coaching and special approval

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 4351. Measurement & Evaluation in Exercise and Sports Science.**

This course introduces students to the fundamental principles and techniques of measuring human performance related to Exercise and Sports Science, as well as evaluating and interpreting the results of exercise science and human performance tests in children and adults. Prerequisite: Overall GPA 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4624. Principles and Practices for Teaching Physical Education.**

This course provides students with an in-depth study of theory and curriculum encompassing the design and implementation of developmentally appropriate and culturally responsive physical education programs for children and adolescents. Emphasis is on implementing evidenced-based curricula that promote youths' enjoyment of and participation in lifelong physical activity. Prerequisites: ESS 1310, ESS 2320, ESS 3325 and 2.75 overall GPA

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 4660. Exercise and Sports Science Internship.**

In this 400-hour internship, students will apply theoretical health and fitness management principles and concepts to an organizational setting. This course requires students to participate in a health and fitness organization/agency and complete a semester-long planning and evaluation project. Prerequisites: Completion of all other coursework required for the degree, department approval, and an overall GPA of 2.5 or higher. (WI)

**6 Credit Hours. 0 Lecture Contact Hours. 25 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ESS 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ESS 5117. Laboratory in Exercise Physiology.**

Students in this leveling laboratory course perform experiments that highlight the physiological responses to exercise. The course introduces students to basis techniques in the assessment of health and human performance, including the assessment of maximal oxygen consumption, body composition, anaerobic power and capacity, muscular fitness, movement economy, and dietary intake. Prerequisite: BIO 2430 or equivalent. Co-requisite: ESS 5317

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in the department. This course provides regular in-service and planned periodic evaluations of instructional and professional responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**ESS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5303. Adapted Physical Education.**

A leveling course designed to provide content knowledge on legal mandates, evidence-based practices, and the characteristics of selected disabilities and their consideration when designing meaningful individualized physical activity experiences to meet the needs of students with disabilities in school settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5304. Motor Learning and Performance.**

This course is designed to provide students the foundation for understanding the principles involved in enhancing motor skill acquisition, and physiological, neurological, and psychological factors affecting motor learning and performance. Inquiry is made into the various motor learning theories and concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5305. Advanced Fitness Assessment and Exercise Prescription.**

This course provides an intensive study of current scientifically based exercise testing and prescription procedures. Students will learn how to evaluate fitness and prescribe exercise through laboratory experiences

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**ESS 5306. Advanced Exercise Physiology.**

This advanced course will provide students with a thorough understanding of the acute responses to exercise and the physiological adaptations that occur in response to exercise training. Additional topics to be covered include environmental influences, aging, and sex differences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5307. Advanced Resistance Training and Conditioning.**

This course will include the development, instruction, and evaluation of resistance training exercises and programs for diverse populations and settings. Physiological and mechanical principles related to resistance training will be applied to study human performance, injury prevention, and rehabilitation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5308. Physical Activity, Exercise, and Epidemiology.**

This course will provide students with opportunities to examine the role of physical inactivity in the development of chronic diseases and the benefits of activity in prevention efforts. A special emphasis will be placed on activity assessment and intervention research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5309. Biomechanics for Exercise & Sports Science.**

Review of current research and research techniques in the biomechanics of exercise and sport science. Students will develop skills in reviewing, planning, and conducting biomechanical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5310. Cardiopulmonary Exercise Physiology.**

The course will provide students with a thorough understanding of the structure, function, neural mechanisms, and integrated responses of the human cardiopulmonary system to acute and chronic exercise. In addition, basic cardiopulmonary pathology, pharmacology, and electrocardiography will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5311. Applied Neuromuscular and Skeletal Muscle Physiology.**

The course will provide students with a thorough understanding of the structure and function of neuromuscular and skeletal muscle physiology. This course will examine mechanisms that regulate skeletal muscle force production and human performance in response to acute and chronic exercise. In addition, advanced laboratory techniques will be introduced

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5317. Exercise Physiology.**

This leveling course provides an overview of the acute and chronic physiological responses to exercise. Emphasis is on muscle bioenergetics, muscle contractile properties, optimizing human performance through training and supplementation, as well as cardiopulmonary and endocrine responses to exercise. Prerequisite: BIO 2430 or equivalent. Corequisite: ESS 5117

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5320. Biomechanics.**

This leveling course provides an introduction to the mechanical foundations of anatomical function and human movement. Qualitative and quantitative biomechanical analyses of human movement are introduced to inform the prescription of technique, equipment, and training interventions. Prerequisite: BIO 2430 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**ESS 5322. Inclusion and Diversity in Physical Activity and Sport.**

This course is designed to prepare physical activity and sport educators with knowledge, skills, and strategies to create inclusive learning environments. Culturally responsive teaching strategies that best accommodate the individual needs of children, adolescents, and adults, with diverse ethnic, racial, cultural, socio-economic, physical, and cognitive needs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5323. Physical and Motor Assessment of Children with Disabilities.**

This survey course addresses the selection, administration, and interpretation of commonly used assessment tools and practices for collecting physical and motor performance data on children with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5329. Motor Learning.**

This leveling course provides students with an understanding of the physiological, neurological, and psychological factors affecting performance and acquisition of motor skills. Students will examine the structural components underlying the learning of motor skills and draw upon examples from sport, physical activities, and rehabilitation. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**ESS 5344. Improving Instruction and Assessment in Physical Activity and Sport.**

This course is a comprehensive study of pedagogical research examining effective teaching and assessment strategies in physical activity and sport. The use of assessment to improve instruction, learning outcomes, and programming will be emphasized. The course is designed to promote reflective physical activity and sport educators

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5346. Research Methods in Health and Human Performance.**

A study of research methods related to techniques for searching the professional research literature, understanding, planning, and conducting professional research projects, as well as development of skills for writing research proposals related to human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**ESS 5347. Independent Study in Exercise Science.**

The course allows students to receive individualized instruction while working on a professional project with a supervising faculty member.

This course will require students to enhance their writing, research, teaching, and/or presentation skills. Repeatable once for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5351. Measurement & Evaluation in Exercise Science.**

This leveling course examines fundamental principles and techniques of measuring human performance related to Exercise and Sports Science, as well as evaluating and interpreting the results of exercise science and human performance tests in children and adults. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5353. Curriculum and Instruction in Physical Activity and Sport.**

This course examines contemporary evidenced-based curriculum models. It is designed to enable students to develop and implement developmentally appropriate and theoretically based physical activity and sport programs in schools, communities, and athletic venues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5354. Developmental Sports Education I.**

This course is designed to provide sport educators with theory, research, and application strategies to implement developmentally appropriate sports programs. Pedagogical, philosophical, psychosocial, and physiological variables impacting youth participation in sport are examined. Emphasis is placed on promoting positive youth development by applying evidenced-based practices in sports education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5355. Developmental Sports Education II.**

The purpose of this course is to provide sports education professionals with the theoretical and practical information necessary to design and implement a quality sports experience for adolescents and/or adults. This course will focus on a theory to practice approach and will include a bio-psychosocial perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5356. Applied Statistics in Health and Human Performance.**

A study of quantitative statistical methods for planning and conducting experimental and correlational research, as well as techniques for statistical data analysis and interpretation applicable to health and human performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5391. Administrative Problems in Competitive Sports.**

This course investigates problems of organization and administration of the various programs in competitive sports for men and women in junior high, secondary, and collegiate levels

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5398. Internship in Exercise and Sports Science.**

This 240-hour internship provides students with work-related experience with children, adults, older individuals, or athletes in exercise settings.

Students are provided an opportunity to prescribe and supervise age- and fitness-appropriate exercise programs and perform exercise tests.

Prerequisite: ESS 5306

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis course credit is awarded until the student has completed the entire thesis required in ESS 5399B. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisites: ESS 5346 and ESS 5356

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**ESS 5624. Principles and Practices for Teaching Physical Education.**

This is a leveling class for graduate students pursuing teaching certification in physical education. Particular emphasis is placed on methods of teaching physical education. This course does not earn graduate credit. Departmental Approval required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**ESS 5698. Internship in Exercise and Sports Science.**

This full-time internship provides students with a minimum of 480 hours of field experience. Students will work with children, adults, older individuals, or athletes in exercise or health care settings, and prescribe and supervise age and fitness appropriate exercise programs and perform comprehensive health-related assessments

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ESS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the completed thesis is submitted for binding. Graded on a credit (CR), in progress (PR), or no credit (F) basis. Prerequisite: ESS 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Family and Child Development (FCD)



**FCD 1351. Lifespan Development.**

Developmental principles underlying behavior as experienced in physical, intellectual, emotional and social changes across the lifespan. Emphasis will be on adult development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 2351. Child Development.**

The development of the total child from conception through adolescence. Observation in Child Development Center

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 2353. Principles of Guidance.**

Students will examine research, theory, and developmentally appropriate practices related to children's social development and child guidance.

Participation in the Child Development Center is required. Restricted to Family and Child Development majors. Prerequisite: FCD 2351

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 2357. Infants and Toddlers.**

This course focuses on understanding and enhancing the development of infants and toddlers in home and group settings. Emphasis is on experiences that promote physical, cognitive, language, and social/emotional development

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 3344. Introduction to Infant and Early Childhood Mental Health.**

This course is an introduction to the interdisciplinary understanding of the social and emotional development of infants and young children within the context of the family. The role of the infant mental health specialist in strengthening the development of young children will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3345. Methods in Child Life.**

This course focuses on the applied techniques of the Child Life profession. The course will include medical diagnosis terminology, patient assessment, therapeutic techniques and interventions utilized in child life clinical practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3346. Families in Southeast Asia.**

This course will focus on how children and families negotiate their daily lives in Southeast Asia. Topics will include a broad overview of issues relevant to Southeast Asian children and families in addition to more detailed analysis of the unique experiences of specific ethnic groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3350. Sexuality Across the Lifespan.**

A study of sexuality development as it relates to current critical issues for families and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3351. Creative Experiences for Children.**

This course focuses on developmentally appropriate methods, materials, and planning for children's programs through language, literature, music, art, play, social studies, math, and science. Participation in the Child Development Center is required. Prerequisite: FCD 2353

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 3352. Development of Programs for Young Children.**

The study of group care programs for children including development, implementation and assessment of developmentally appropriate programs. Various theoretical and philosophical components will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3353. Family Life Education.**

Study of relationships between core knowledge, educational practice, and audience characteristics in family life education. Translation of research-based knowledge about family life into education materials and presentations suitable for families. Opportunity to develop, implement, and evaluate a family life education presentation. Prerequisites: FCD 2353 and FCD 3355. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FCD 3354. Creative Experiences: STEM.**

This course focuses on the study and application of STEM (science, technology, engineering, and math) concepts in preschool classrooms. Students will examine research, theory, and best practices to plan and implement developmentally appropriate STEM methods, materials, and activities. Participation at Child Development Center required.

Prerequisite: FCD 2353 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 3355. Family Relationships.**

This course will cover a broad range of research-based topics including the universality and uniqueness of American families, the establishment and maintenance of intimate relationships, family formation and parenthood, and various other aspects related to individual and family relationships over time

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3356. Introduction to Early Childhood Intervention.**

This course provides an interdisciplinary orientation to the professional discipline of early childhood intervention and the early intervention specialist

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3358. Practicum in Child Development.**

Structured practical experience in child development center.

Prerequisites: FCD 2353, FCD 2357, and FCD 3351 or approval of instructor

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**FCD 3359. Family Diversity.**

This course will explore both the internal dynamics and external environments of diverse family forms – including prevalence, social conditions leading to and sustaining their existence, common stereotypes, and recent research. Prerequisite: FCD 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 3394. Adolescent Development.**

A study of adolescence as it relates to current critical issues for families and society. The course will focus on specific techniques to analyze and assist the development of adolescents. Emphasis will be on theory and research as it explains the development process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4301. Internship in Family and Child Development.**

Internship program in Family and Child Development – related professions, services, industry, or business. Must meet college, department, and program requirements. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**FCD 4302C. Conducting Research on Latino Families.**

This course is an introduction to research with Latino families. Through the course students will explore current research issues via reviewing research articles. Students will also conduct research with Latino families, gaining important research experience. Prerequisite: Minimum 2.5 Texas State GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302D. Language, Literacy, and Children's Literature.**

Students will explore the foundations of children's language development and literacy skills using the various forms and genres of children's literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302E. Latino Youth and Families.**

This course is an introduction to research regarding the development of Latino youth and families, exploring the most common physical, cognitive, and socio-emotional aspects of development. Students will learn that these changes are dynamically interrelated and diverse, often depending on factors such as gender and cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4302F. Middle Childhood Development.**

This course will focus on the typical developmental characteristics of children between the ages of six and twelve years across physical, motor, cognitive, language, social, and emotional domains. Students will explore developmentally appropriate out-of-school-time programs, including environments and activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCD 4351. Cultural Diversity of Families.**

Students will study cultural diversity with an emphasis on different racial and/or ethnic groups, religions, and social classes. Students will explore selected family science research methods and topics including family function, family life patterns, multicultural groups, agents of enculturation, and family life education as they relate to cultural diversity. Prerequisite: FCD 3355. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FCD 4352. Administration of Programs for Children.**

Addresses the history, philosophy, and ethics of programs for young children. Emphasis on responsibilities of the child care administrator in relation to staff, budgets, facility laws, and standards of agency management. Prerequisite: FCD 2353 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4353. Hospitalized Child: Introduction to Child Life.**

This course introduces students to theoretical and practical methods of working with children and their families in health care settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4355. Family Interaction.**

Study and comparison of family interaction and process across various family structures and transitions. Investigation of interaction strategies to enhance successful family function across various family structures and transitions. Prerequisite: FCD 3355 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4356. Administration of Human Service Organizations.**

Students will study the implementation of non-profit family and child development programs. Emphasis will be on the leadership and management of human service organizations including program staffing, strategic planning, problem solving, grant writing, and ethical leadership. Prerequisite: FCD 2353 and FCD 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 4357. Comparative Studies in Child Development.**

The study of early care and education systems including goals, funding and regulation through participation in international exchange programs. The role of government policies in the development and implementation of systems will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FCD 4391. Independent Study in Family and Child Development.**

Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**FCD 5100. Introduction to Family and Child Studies.**

Focus on gaining information and competencies important to graduate study success. Includes academic expectations for graduate students as well as information related to the Family and Child Studies graduate program. Required for Family and Child Studies majors. Graded on a credit (CR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5101. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**FCD 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5340. Advanced Cultural Diversity of Families.**

Survey study of family diversity through selected family science research methods and topics including family structure and function, family life patterns, multicultural groups, agents of enculturation, and family life education. Prerequisite: Graduate Standing. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FCD 5341. Advanced Child Development.**

Focus on developmental processes and influences from conception through early childhood period. Includes interactive relationship of biological and environmental factors in total development of the child. Child observations required. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5342. Early Childhood Intervention.**

This course provides an interdisciplinary introduction, study, and application of information to the professional discipline of early childhood intervention and the early intervention specialist (EIS). Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5343. Hospitalized Child: Child Life Specialist.**

This course enhances students' ability to utilize theoretical and applied technologies when interacting with children and families in hospital settings. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5344. Infant and Early Childhood Mental Health.**

This course provides an interdisciplinary understanding of the social and emotional development of infants and young children within the context of the family. Focus will be on the role of the infant mental health specialist in strengthening the development of young children and the parent-child relationship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5345. Advanced Methods in Child Life.**

This course focuses on the applied techniques and methodologies essential to the child life profession. In addition, this course offers guided experience and opportunities for stepping into the child life profession, ongoing career development and self care

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5346. Foundations of Family and Child Studies.**

This course will cover the foundations of family and child studies. Topics will include child development, principles of guidance, and family relationships. Prerequisite: Graduate standing. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**FCD 5347. Grief and Bereavement in Children, Adolescents, and Parents.**

This course includes a historical review of theoretical models on grief and bereavement, influences on grief and bereavement responses, and current perspectives on helping the bereaved cope. Implications for child life specialists will be analyzed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5348. Pain and Anxiety Management for Children.**

This course provides child life students with theoretical foundations and applied non-pharmacological strategies for assessing children's pain and anxiety and assisting them with alleviation during painful healthcare and other life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5350. Research Design and Methods in Family and Child Studies.**

Evaluation of research concepts, methods, and strategies in family and child studies. Topics include the nature of scientific research, sampling, measurement, data collection, types of socio-behavioral research, data analysis, and evaluation of research reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5351. Advanced Theory in Family and Child Studies.**

A critical evaluation of theoretical concepts and current research in family and child studies. Emphasis on recent trends in family and child theories

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5352. Seminar: Issues in Family and Child Studies.**

Seminar to examine current issues in family and child studies. Emphasis on current research, theories, and applications. Also includes orientation to the conceptual and methodological perspectives of multi-disciplinary study in the field of family and child studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5353. Program Evaluation in Family and Child Studies.**

Study of the diversity and effectiveness of family and child services programs at the federal, state, and community levels. Program evaluation strategies and measures, fiscal management, and grant writing will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5355. Advanced Independent Study.**

Individual work on problems related to student's primary area of specialization. Work may consist of empirical research or of critical reviews and integration of existing literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5356. Advanced Program Administration.**

Study of family and child services systems. Management theory and strategies, strategic planning, program development and implementation, personnel management, and public policy are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5357. Comparative Studies in Child Development.**

The study of cultural values and beliefs regarding children and the reflection of these in childrearing and early care and education programs and practices in the U.S. and selected countries. The interactive influence of culture and national policies will also be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCD 5358. Practicum in Family and Child Studies I.**

Structured practical experience in family and child studies in a private or public setting. Supervision provided by a member of the graduate faculty and a designated individual at the work site. Focus will be on experiential learning. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5359. Practicum in Family and Child Studies II.**

Continued practical experience in family and child studies at a private or public setting with supervision provided by a member of the graduate faculty and a designated individual at the work site. A research report will be integrated with practical application. Graded on a credit (CR), no credit (F) basis. Prerequisite: FCD 5358

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5399A. Thesis.**

This course represents a student's initial thesis enrollment. Focus is on identification of thesis topic, review of literature, and research design. No thesis credit is awarded until student has completed the thesis in FCD 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5659. Internship in Child Life.**

Structured hospital experience for individuals who plan to pursue a career in child life. Provides opportunity to work in a hospital setting under the direction of a certified child life specialist. Prerequisite: 30 hours of graduate coursework or approval of graduate advisor. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 0 Lecture Contact Hours. 32 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCD 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: FCD 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Family and Consumer Sciences (FCS)

**FCS 4101. Special Problems in Family and Consumer Sciences.**

A study of selected areas of Family and Consumer Sciences. Repeatable for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**FCS 4303. Research Procedures in Family & Consumer Sciences.**

The study and implementation of research procedures for use with family and consumer sciences programs. Includes instrument selection, recruitment and testing of subjects, coding, analysis and dissemination of data. Will include field based experiences using appropriate research procedures. Restricted to Senior Standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4304A. Family Finance II.**

This course is a study of financial management for individuals and families. Topics include financial inequality, investments, retirement planning, and estate planning. Prerequisite: CA 3341

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**FCS 4340. International Study in Family and Consumer Sciences.**

Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on cultural awareness and its application within FCS professions. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4343. Occupational Education in FCS.**

Its purpose is to help prepare students for teacher certification and teach occupational education content in 11-12 grade FCS classrooms. Occupational education course in 11-12 grades such as Services for Older Adults, Hospitality Services, Childcare and Guidance and Food Production, management and services are designed for students to gain extensive management skills and practical work experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 4344. Instructional Management for Family and Consumer Sciences.**

This course provides students with hands-on application of the Texas Teaching Proficiencies adopted by the State Board of Education. Principles and practices specifically needed for managing the FCS classroom will be addressed. Prerequisite: FCS 4343. Co-requisite: FCS 4681

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 4347. Family Policy.**

This course is an examination of policy-making and the significance of national, state and local policies that affect families. Students will analyze social policies, including government programs and legislation, and discuss how to influence change in policies. Use of the Internet and computer software programs such as Word, PowerPoint, and others required. Requires Senior Standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FCS 4681. Family and Consumer Sciences: Principles and Process.**

Observation and participation in the total family and consumer science program. Requires a full day in the Teaching Center for ten weeks (five day week except for holidays in public school system). Prerequisites: FCS 3390 and completion of all required Family and Consumer Sciences courses

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**FCS 5101. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable up to 3 times

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**FCS 5302H. Sustainable Consumer Economy.**

This course is a in-depth study of the role of consumption in the development of sustainable systems including the family, natural resources and economics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FCS 5302J. Statistics and Data Analysis for Family and Consumer Sciences.**

This is a graduate level course covering statistical techniques commonly used in the field of family and consumer sciences. Topics include descriptive statistics, Chi-Square analysis, analysis of variance and covariance, simple and multiple linear regression, logistic regression, and use of statistical software. Data analysis to support decision-making is emphasized. Restricted to students in one of the graduate FCS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FCS 5302S. Sustainable Textiles.**

This course is an in-depth study of the relationship of fibers, fabrics, finishes and textile products end-uses with a particular focus on their impact on sustainability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FCS 5302X. Policy in Family/Child Studies.**

An examination of the policy making process and the significance of national, state, and local policies as they affect the family. Frameworks for analyzing social policy will be used to examine existing government efforts and legislation. Implications for bringing about change in policies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FCS 5305. Sustainable Housing.**

This course is an in-depth study of the relationship between housing and sustainability with a particular focus on the role of materials, technology, policy and human factors in fostering healthy social, economic and natural systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 5307. Sustainable Lighting.**

This course focuses on understanding the elements and principles of sustainable lighting and explains how it meets the qualitative needs of the visual environment with the least impact on the natural environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FCS 5310. Research Methods in FCS.**

This course will cover the evaluation of concepts, methods, and strategies for research in the disciplines of family and consumer sciences. The course will focus on the nature and ethics of scientific research, including design, sampling, measurement, and data collection. Restricted to graduate level majors in the School of Family and Consumer Sciences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**FCS 5311. Statistics and Data Analysis for Family and Consumer Sciences.**

This is a graduate level course covering statistical techniques commonly used in the field of family and consumer sciences. Topics include descriptive statistics, Chi-Square analysis, analysis of variance and covariance, simple and multiple linear regression, logistic regression, and use of statistical software. Data analysis to support decision-making is emphasized. Prerequisite: FCS 5310. Restricted to graduate students in FCS

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FCS 5340. International Study in Family and Consumer Sciences.**

Study of Family and Consumer Sciences topics in international settings. Emphasis will be placed on an analysis of cultural differences and similarities and their application within FCS professions. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter

## Fashion Merchandising (FM)

**FM 1330. Introduction to Fashion Merchandising.**

Survey of the fashion industry including an overview of the development, production and distribution of fashion goods and services

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter  
**TCCN:** HECO 2311

**FM 1332. Textiles.**

A consumer-oriented study of the relationship of fibers, fabrics, and textile product end-uses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter  
**TCCN:** HECO 1320

**FM 2330. Fashion Promotional Strategies I.**

The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques used at the retail level. Prerequisite: FM 1330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 2334. Textile Product Analysis.**

The study of textile product quality control issues important to manufacturers, retailers, and consumers. Emphasis is placed on evaluating quality based on appearance, cost, durability, and end-use of textile products. Prerequisites: FM 1330 and FM 1332

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 2335. Gender, Appearance, and Society.**

The investigation of the role of dress and appearance in nonverbal communication, development of the self and gender identity, and social interactions of individuals with a particular emphasis on diverse appearances by various cultural groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 2336. Introduction to Merchandising Technology.**

This course introduces new technologies and industry software used in the merchandising industry and prepares students to take advanced courses that rely on these technologies and software. Topics include Adobe Photoshop and Illustrator, Microsoft Excel, SPSS statistics, and Space Planning software

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 3330. Fashion Buying Principles I.**

Quantitative concepts used in merchandising fashion goods with an emphasis on profitability. Prerequisites: FM 2334 or FM 2336; and MATH 1315 or MATH 1316 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 3332. Fashion Promotional Strategies II.**

The study of promotional strategies unique to the fashion industry. Emphasis is placed on techniques initiated by manufacturers and wholesalers of fashion products. Prerequisites: FM 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 3334. Fashion Merchandising Administration.**

The study of human resource management in the fashion industry including recruitment, development, assessment, and compensation. Prerequisite: FM 1330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 3335. Pre-history to Renaissance Textiles, Dress and Adornment.**

Survey of textiles, dress and adornment from pre-history through the ancient Eastern and Middle Eastern cultures to the development of Western civilization ending with the Northern Renaissance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 3336. Baroque to Modern Western Dress and Adornment.**

Chronological study of Western dress and adornment from the Baroque period through modern times. Emphasis on the socio-economic, political, and technological factors contributing to the evolution of fashion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FM 4101. Special Problems in Fashion Merchandising.**

A study of selected areas of Fashion Merchandising. Repeatable for credit with different emphasis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**FM 4111. Specialty Fashion Markets: Career Day.**

On-site study of current textile, merchandising, retail and promotional trends and fashion career related topics. Prerequisite: FM 1330 and FM 1332

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**FM 4122. Special Events: Fashion.**

The study of all facets involved in planning, organizing, and implementation of a fashion related special event. Prerequisite: FM 2330

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4301. Internship in Fashion Merchandising.**

This course is an Internship in Fashion Merchandising-related professions focused on production, distribution, or retailing of fashion goods, or auxiliary services. Repeatable for credit once. Prerequisite: FM 3334. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**FM 4302A. Special Events Planning.**

An in-depth study of selected topics and emerging issues related to the planning of special events. Emphasis will be on planning, organizing, implementing and evaluating special events

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4302B. Specialty Fashion Markets.**

An in-depth study of specialty fashion markets including historic background; significance of the market; terminology; product assortment, development, production and distribution; and trend analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4302F. Trends Forecasting and Social Media.**

This special topics course in Fashion Merchandising will focus on specific methods for forecasting fashion trends and the role of social media in the diffusion of fashion trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FM 4320. Fashion Merchandising in Domestic Markets.**

An on-site study of domestic fashion market centers. Course examines the design, production, and distribution of fashion products and services at various market levels. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FM 4331. Fashion Buying Principles II.**

This course is a study of the fashion merchandise buyer, planner, and allocator roles emphasizing retail merchandising functions.

These include developing merchandise plans, selecting products, and negotiating terms. Using best-practice industry software, students will analyze merchandising data to manage inventory levels, and evaluate performance of sales and profit. Prerequisite: FM 3330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 4334. Fashion Product Development.**

The course will focus on fashion product development for target markets. Emphasis of the course will be placed on line development, product specification, color and textile selection, sizing and product costing.

Prerequisites: FM 1332, and FM 2334 or FM 2336, with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 4335. Principles of Fashion Consumption.**

An analysis of variables, concepts and theories related to the role of the consumer in fashion and fashion product consumption. Prerequisite:

FM 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 4337. Fashion Merchandising.**

The study of managerial decisions in fashion retailing with an emphasis on operational issues. Prerequisites: FM 1330, FM 2330, FM 3330, and FM 3334, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FM 4338. Enterprise Development.**

Principles and procedures used in creating successful enterprises to meet consumer demand, including consumer research, logistical issues, and strategic planning. Examines various product and service offerings in traditional and non-traditional outlets

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FM 4339. Fashion Economics.**

Economic perspective of textile products, production and global sourcing with emphasis on U.S. fashion industries. Prerequisite: FM 1330, FM 1332, and ECO 2301, or ECO 2314 and ECO 2315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FM 4340. Fashion Merchandising in International Markets.**

Study of Fashion Merchandising topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Fashion Merchandising professions. Repeatable for credit with different emphasis. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

**FM 4391. Independent Study in Fashion Merchandising.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature or other appropriate independent work. May be repeated once for credit with approval of instructor.

Prerequisites: FM 1330 and consent of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Finance (FIN)

**FIN 3301. Real Estate.**

A study of basic real estate principles. Topics include legal instruments and processes, property management, valuations, planning, development and sales, financing, and private and public interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3312. Business Finance.**

This course is an introduction to the finance function and to problems confronting financial managers. Topics covered include ratio analysis, time value of money, asset valuation, and risk and return. Prerequisites: ACC 2362; CIS 1323; ECO 2314; ECO 2315; MATH 1329 or equivalent; and completion of, or concurrent enrollment in, QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3313. Financial Management.**

This course is an advanced study of intermediate and long-term financing alternatives, the incorporation of risk analyses in capital budgeting and the determination of capital costs, capital structure, and dividend policies. Prerequisites: FIN 3312 with a grade of "C" or higher and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3316. Financial Information Technologies.**

The course introduces students to technology supporting financial modeling and decision making. Students use computers to apply concepts and theories learned in the introductory Finance course. Course relies on quantitative analysis and use of the internet. Prerequisites:

FIN 3312 with a grade of "C" or higher and QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3318. Investment Analysis.**

This course studies the principles governing the investment of personal and institutional funds. Also examined are information sources, exchanges, and regulations. Prerequisites: FIN 3312 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3325. Personal Financial Management.**

A study of modern money management, including budgeting, banking, real estate, insurance, consumer credit, and retirement and estate planning. Not for Business majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3326. Financial Planning Insurance.**

An introduction to the steps in the financial planning process. Topics include assessing financial objectives, financial planning, and personal financial management. Insurance planning is emphasized. Prerequisites: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 3335. Retirement Planning and Employee Benefits.**

Planning for individual and family retirement using models, software, and the analysis of federal regulations. Employee benefits are described and analyzed based on current practices and federal regulations.

Prerequisites: FIN 3318 and FIN 3326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4317. Case Problems in Finance.**

An application of investment and financial management techniques and concepts to finance cases. Issues and alternatives are identified and evaluated. Prerequisites: FIN 3312, FIN 3313, and FIN 3316. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FIN 4318. Portfolio Management & Derivatives.**

An advanced investments course which includes the following topics: portfolio analysis and management, derivatives theory and pricing, and applications of derivatives in portfolio management. Prerequisites: FIN 3313, FIN 3316, FIN 3318

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4319. Financial Markets and Institutions.**

A study of financial assets, money and capital markets, institutional intermediaries, and the impact of interest rates. Affords a thorough examination of the financial system facilitating economic growth and development. Prerequisites: ECO 3311; FIN 3313, FIN 3316. Prerequisite or co-requisite: FIN 3318

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4320. Treasury and Working Capital Management.**

A study of working capital and short-term financial management. Major topics include cash collections, cash concentration, disbursement management, forecasting cash flows, management of receivables and inventory, banking relationships, and short-term investment and borrow strategies. Prerequisites: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4321. Real Estate Finance.**

An analysis of problems involved in selecting and financing real estate investment opportunities. Prerequisite: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 4322. Student Managed Investment Fund Practicum.**

The course examines the issues involved in the management and investment strategies of an endowment. It focuses on investment analysis, asset allocation, portfolio monitoring, evaluation, and rebalancing. May be repeated one time for credit with different emphasis. Prerequisites: FIN 3318 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FIN 4325. Advanced Financial Planning.**

Advanced course for finance majors interested in financial planning. Topics include ethics in the financial services industry, retirement planning and employee benefits, and estate planning. Prerequisites: FIN 3318, FIN 3326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FIN 4326. Financial Plan Development.**

Financial Plan Development. Capstone course in personal financial planning. Integration of the financial planning curriculum in the development and presentation of a comprehensive personal financial plan. Prerequisites: FIN 3335, FIN 4325. Prerequisite/Corequisite: ACC 4328

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**FIN 4331. International Finance.**

A study of international finance principles and their application in a multinational financial management setting. Prerequisites: ECO 3311, FIN 3313, and FIN 3316. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter

**FIN 4340. Commercial Bank Management.**

Examines a variety of aspects of managing a commercial bank. Provides students with a conceptual framework for determining the effects of various decisions and environmental factors on a commercial bank's operations. Issues addressed include bank regulations, asset and liability management, analyzing bank performance, and capital management. Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FIN 4380A. Advance Capital Budgeting.**

A study of capital budgeting techniques, analyses (including risk), and strategies, and their implementation in capital assets investment. Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**FIN 4380F. New Venture Finance.**

An advanced study of methodologies to value financial investments; including but not limited to capital expenditures, commercial real estate, public companies, private companies, and start-up companies. Additional studies will include cost of capital structure and funding sources and alternatives. Prerequisite: FIN 3313 and FIN 3316

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**FIN 4380G. Financial Modeling and Equity Analysis.**

This course reviews and extends students' ability to perform financial statement analysis and forecasting. The focus of the course is on producing objective, theory-based company valuation research. Students will choose and defend inputs for qualitative analysis, and discover the importance of qualitative factors in firm value and performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**FIN 4380H. Introduction to Fiduciary Law.**

This course will develop the student's fiduciary knowledge and skills. Students will develop a basic understanding of estate and trust administration, risk management, compliance, and tax planning. Key concepts will include Intestate Succession, Wills, Estate Administration, Trusts, Fiduciary Litigation, Wealth Transfer Taxation, Death and Disability Planning. Prerequisites: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**FIN 4380I. Introduction to Trust Principles.**

The course will explain the principles of estate planning, taxation and different forms of property ownership. A focus will be on the characteristics, administration and usage of trusts, retirement plans, guardianships and powers of attorney. Students will also follow the process of creating and administering a will containing Trust provisions. Prerequisite: FIN 3312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**FIN 4390. Internship in Finance.**

Integration of professional and academic experience through an internship with an external employer. Open to Finance majors only, students must have completed at least nine hours of major courses, enrollment subject to availability and approval, credit awarded as pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**FIN 4395. Independent Study in Finance.**

An in-depth study of a single topic or related problem solved through finance research. May be repeated once for credit with different emphasis. Prerequisite: Consent of instructor and department chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**FIN 5307. Financial Analysis.**

Development of the theoretical basis and presentation of the techniques for the acquisition and management of the firm's financial resources. Topics include working capital management, capital budgeting, and internal and external financing decisions. May not be counted as an MBA elective course. This course does not earn graduate degree credit. Prerequisite: B A 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**FIN 5322. Investment Analysis.**

This course provides an introduction to the basic concepts of investments and investment management. It is designed to develop a framework within which to view the investment process in a global environment and an understanding of the institutional setting in which investment decisions are made. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**FIN 5332. Portfolio Theory and Capital Markets.**

This course is designed to provide students with an overview of the strategies for creating and managing portfolios. At the end of this course, students should understand the tools for investment management.

Topics covered include portfolio construction and analysis, risk analysis, asset class management, derivatives, and portfolio performance analysis.

Prerequisite: FIN 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 5337. International Finance.**

Examination of economic incentives and rationale for multinational firms, exchange rate risk exposure and management, investment decision strategy, and the general economic impact of multinational firm activity.

Prerequisite: B A 5352. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FIN 5338. International Investments and Financial Management.**

Examination of economic incentives and rationale for international investment and financing. Topics include exchange rate risk exposure and management, global debt and equity investment and financing, foreign currency derivative markets, and general investment and financing strategy in global capital market. Prerequisite: B A 5352. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FIN 5347C. Real Estate Investment.**

An application of capital budgeting to real estate investment decisions.

Prerequisite: FIN 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FIN 5347D. Behavioral Finance and the Business of Professional Sports.**

This course provides student with an understanding of the relationship between psychology, investor behavior, and financial market efficiency.

While market participants may believe that they are acting rationally when making investment decisions, often they are influenced by irrelevant information or ignore pertinent factors. Students will be presented with recent research in the field of behavioral finance.

Attention will be given to sports betting markets; such markets provide a useful model for analyzing investor behavior. The course also includes an in-depth examination of sports as a business. Specifically, students will analyze financial decision-making in the NFL, MLB, NHL, NBA, and horse racing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FIN 5347F. Money, Banking, Financial Markets & Institutions.**

This course will examine the important relationships between money, depository institutions, financial markets and non-depository financial institutions. It is designed to equip managers with intellectual tools necessary to critically evaluate changing and evolving financial market conditions and their impact on managerial decision making. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FIN 5347G. Short-Term Financial & Treasury Management.**

The focus of the course is to apply financial concepts and quantitative techniques to solve issues in corporate treasury and short-term financial problems. Topics include cash collection, cash concentration, disbursement management, forecasting cash flows, credit management, banking relationships, and short-term investment and borrow strategies.

Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**FIN 5387. Managerial Finance.**

Concentrates on the finance function, analysis and budgeting of funds, management of current assets, short and intermediate-term financing requirements, long-term debt policy and capital structure, capital budgeting, and the concept of cost of capital. Risk and return trade-offs also are studied. Prerequisite: B A 5352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**FIN 5395. Independent Study in Finance.**

An in-depth study of a single topic or related problem solved through finance research. The course may be repeated once if the topic studied is different. Prerequisite: Consent of instructor and Department Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## French (FR)

**FR 1410. Beginning French I.**

Introduction to listening, speaking, reading, and writing skills within a French cultural framework. Students who take FR 1410 toward degree requirements must also complete FR 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 1411

**FR 1420. Beginning French II.**

Continued practice in listening, speaking, reading, and writing skills within a French cultural framework. Students who take FR 1410 toward degree requirements must also complete FR 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 1412



**FR 2310. Intermediate French I.**

Continued development and review of all language skills within a French cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 2311

**FR 2320. Intermediate French II.**

More advanced practice in all language skills with greater emphasis on reading within a French cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** FREN 2312

**FR 3305. Acting French.**

An introduction to upper division courses in French designed to strengthen reading skills and oral command of the language through the study and performance of short French plays from the classical to the contemporary period. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3306. Masterpieces of French Literature.**

Masterpieces of French literature in various genres from different periods with emphasis on the modern period. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FR 3310. French Pronunciation and Intonation.**

Study and intensive practice of problems in French pronunciation and intonation. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3341. Advanced Grammar in French.**

A study of more advanced grammatical, syntactical, and stylistic problems in mastering the French language with the aim of strengthening students' command of the structure of French and developing skills for more effective writing. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3350. History of European Cinema I, 1895-1960.**

This course introduces students to the history of European Cinema from the medium's origins in 1895 to the late 1950s. Students will learn about major developments in film narrative and technology in a European country from the silent to the classic eras. May be repeated for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FR 3351. History of European Cinema II, 1960 to the Present.**

This course introduces students to the history of European Cinema from the late 1950s to the present. Students will learn about major developments in film narrative and technology in a European country from the New Wave to the New European cinemas. May be repeated for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**FR 3381. Business French I.**

A course designed for students interested in business related careers. The course will help students to become familiar with basic French business language and the specifics of Francophone business cultures. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 3382. Business French II.**

A case study-based course that uses a simulation approach to problem-solving in a French business environment. The course objective is the development of an understanding of French practices, and the way they differ from American ones, through the analysis of contextualized situations in marketing and management. Prerequisite: FR 3381 or consent of the instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**FR 4304A. French Translation.**

This course offers a practical introduction to translation from French to English including the translation process, translation skills, techniques and strategies, quality control, translation tools and resources, computer-assisted translation devices, translator certification, and career opportunities. The course will focus on business, technical, legal, financial, scientific, audiovisual, and literary texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4304B. French Genre Fiction.**

This course focuses on the study of specific fictional works associated with a particular genre (e.g., crime fiction, the fantastic, and science-fiction) and the authors who are exemplars of that narrative category. Prerequisite: FR 2320 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4341. French Composition and Stylistics.**

Students will incorporate their more advanced grammatical and syntactical skills with the study of style in the writing of compositions in French. Writing exercises will explore a variety of expository techniques from description, narration, dialogue, portraits, to the writing of letters. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**FR 4350A. French Poetic Realist Cinema.**

This course will study the films and directors associated with Poetic Realism, the film style of the 1930s in France and an important precursor to Italian Neorealism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**FR 4370. French Civilization.**

A survey of the cultural institutions of France designed to provide a background for a better understanding of the French people, encompassing the development of French culture and the forces that have shaped modern France. Recent essays, films, and comparative analyses of French-American relations will be presented. Repeatable for credit with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**FR 4390. Studies in French Culture, Language, or Literature.**

A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Approval by the Chair of the Department of Modern Languages is required to enroll. Applications must be submitted prior to the registration period each semester. May be repeated once for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## General Science (GS)

**GS 3310. General Science.**

This course is a laboratory course designed to acquaint the student with the fundamentals of chemistry and earth space science. It is non-creditable for science majors but is a required course for Elementary EC-6 Generalist certification. Prerequisites: PHYS 1310, PHYS 1320, and PHYS 1110; or PHYS 1410 and PHYS 1420 all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GS 3320. General Science.**

This course is a laboratory course designed to acquaint the student with the fundamentals of biological science. It is non-creditable for science majors but is a required course for Elementary EC-6 Generalist certification. Prerequisite: BIO 1320, BIO 1421, BIO 1330 and BIO 1130, or BIO 1331 and BIO 1131 completed with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## General Studies (GNST)

**GNST 3150. Career and Major Exploration.**

Students unsure about career choice will determine interests and abilities linked to appropriate careers and the Bachelor of General Studies (BGS) or other majors. Varied group and individual projects will be guided by instructional teams from the PACE Center and/or Career Services.

Required for some BGS major options. Prerequisite: Instructor permission

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GNST 3350. Interdisciplinary Preparation.**

This course includes assignments designed to encourage self-analysis of career interests and planning, and selection of component minors for BGS majors. Students will develop a degree plan matched to their career interests and/or their initial proposal for the GNST 4350 project. Successful completion requires a grade of C or higher. Prerequisite: Declaration of the BGS major, Texas State GPA 2.0 or better, instructor permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GNST 4350. Interdisciplinary Project.**

In this course students will complete an applied, interdisciplinary project incorporating all BGS component minors. The Project will consist of research, interviews, literature reviews, graphic support and other information gathering, presentation and analysis resulting in a written product targeted at the student's chosen area. Prerequisite: GNST 3350 with a grade of "C" or higher, Texas State GPA 2.0 or better, and instructor permission

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Geography (GEO)

**GEO 1105. Meteorology Laboratory.**

Laboratory observations, calculations, and exercises of meteorological data and phenomena. Prerequisite or corequisite: GEO 1305

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1147

**GEO 1305. Meteorology.**

An introduction to atmospheric science providing information on the properties of the atmosphere, the scientific principles that govern weather and climate, and interactions between the atmosphere and the other components of the Earth system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1347

**GEO 1309. Introduction to Cultural Geography.**

This course introduces students to the geographical perspective and focuses on spatial distributions of human activities and investigates underlying geographical processes that account for present and past cultural patterns such as population, folk and popular culture, language, religion, gender, ethnicity, politics, urban and rural land use, and economic development. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GEOG 1302

**GEO 1310. World Geography.**

This course stresses the similarities and differences of the major world regions. Emphasis is given to human behavior in a spatial context. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GEOG 1303

**GEO 2110. Physical Geography Laboratory.**

This is a laboratory course that includes exercises and calculations to apply principles and concepts covered in introductory physical geography lecture classes. These include geographic tools, weather and climate, soils and biogeography, and geomorphology. Open only to students who have taken the lecture class at another college/university. Prerequisites: MATH 1315 or higher (excluding MATH 1316) with a grade of "C" or higher. An introductory physical geography lecture course with a grade of "C" or higher. Instructor Approval Needed

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 2310. Introduction to Environmental Geography.**

Introduces the Geographic perspective to examine the Earth's environment and its opportunities, constraints, and risks, Principles of scale space, and distributions will be used in examining the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 2410. Introduction to Physical Geography.**

A systematic study of the various elements that make up the Earth's physical environment, weather, climate, vegetation, soil, and landforms. Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2420. Introduction to Geographic Information Techniques.**

The course will introduce the foundations of geographic information systems (GIS), global positioning systems (GPS), remote sensing, cartography, data analysis, and other tools and methods used by geographic information scientists. Maps, data collection, using and creating Internet content, and data analysis and display will be topics in the course

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2426. Fundamentals of Geographic Information Systems.**

This course is an introduction to Geographic Information Systems (GIS), a tool for integrating and analyzing spatial data to visualize relationships, seek explanations and develop solutions to pressing problems. The foundations and theory of GIS will be emphasized.

Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 2427. Management and Implementation of GIS.**

This course addresses strategies for successful GIS management and implementation in an organization-wide context and is organized around four primary issues: implementation planning, data management, technology assessment, and organizational setting. Prerequisite: GEO 2426 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3134. Water Quality Monitoring and Management.**

This course incorporates the water quality training of Texas Watch so students can receive certification and become Texas Watch water quality monitors. In addition, students learn to compile, analyze, and present water quality data for watershed management. May be repeated once for credit. Corequisite or prerequisite: GEO 3434

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 3301. Research Methods in Geography.**

This course provides an introduction to quantitative and qualitative research methodology, data collection and analytical techniques.

Topics include descriptive, inferential, spatial quantitative statistics and qualitative methods such as case studies and content analysis.

The course will introduce students to software applications that are designed for organizing, analyzing and visualizing data. Prerequisite:

MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3303. Economic Geography.**

This course investigates the geographic organization of economic activity with emphasis on the interconnections from global to local scales. Technological advances, resource creation and destruction, supply and demand, distribution and development, environmental impacts, and economic justice are addressed. Theoretical models are used to interpret past and current situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3305. Climatology.**

Introduction to the elements of climate and their use in environmental monitoring and analysis. Prerequisite: GEO 1305 or GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3307. Geography of Europe.**

The course presents a systematic and regional investigation of the physical and cultural processes and phenomena that have created the characteristic landscapes of Europe. Topics include the climate, landform regions, trade, transportation, urban growth, population change, and the evolution of economic integration in the region. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3308. Latin America.**

A regional survey of the physical and cultural geography of Latin America. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3309. United States and Canada.**

This course provides a systematic and regional analysis of the United States and Canada with emphasis on contemporary economic, environmental, political, and social issues. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3310. Urban Geography.**

The study of city systems, form, and development with emphasis on functional patterns, economic base, industrial location, service, and social area analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3313. Natural Resource Use and Management.**

This course uses environmental concepts at all geographic scales to identify and analyze patterns and processes of resource use, and discusses management strategies to solve present and future concerns related to natural resources. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3320. Community and Regional Planning.**

This course examines the practice, history and development of community and regional planning in the U.S. focusing on specific methods and legal frameworks of community planning and cultivating sustainable development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3321. Energy Resource Management.**

An analysis of energy sources, their distribution and characteristics, and the problems associated with their use and management. Prerequisite: MATH 1315 or MATH 1317 or MATH 1319 or MATH 1329 or MATH 2321 or MATH 2328 or MATH 2417 or MATH 2471 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3323. Location Analysis.**

Location and movement stressed in terms of the factors considered in locating industry, business, housing, and community facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3325. Geomorphology.**

This course provides a study of landforms, the processes and materials that form them and change them over time. Students will be introduced to bibliographic research and the interpretation of landforms and landscapes in the field from photographs or maps. Prerequisite: GEO 2410 or GEOL 1410 or equivalents with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3328. Geography of North Africa and the Middle East.**

A regional treatment dealing with the physical features and cultural activities of the people in North Africa and the Middle East. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3329. Geography of Texas.**

A physical and cultural geography of Texas with special emphasis on human resources and economic activities. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 3332. Geography of South and Southeast Asia.**

This course is a systematic and regional overview of the physical and human geography of the countries of the Indian subcontinent and Southeast Asia. Topics include the monsoons, cultural diversity, rapid economic development, agricultural systems, and environmental problems. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3333. Geography of China and Japan.**

This course provides a regional overview of the physical and human geography of the countries of East Asia. This course also systematically examines China, Korea, and Japan by closely examining such topics as the impacts of high population densities and intensive land use practices. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3335. Oceanography.**

An introductory course about the physical, chemical, geologic, and biologic characteristics of the oceans and coastal areas. Emphasis will be placed on the role of the oceans as a component of the global environment. Prerequisite: GEO 2410 or GEOL 1410 or BIO 1320 or BIO 1430, with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 3340. Political Geography.**

Political geography concerns the interrelationship between political activities and spatial distributions. Topics include the concept of the state, international spheres of influence and confrontation, boundaries, contemporary world issues and problems, and geographic aspects of electoral politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. The course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections. Prerequisite: MATH 1315 or higher (not including MATH 1316) with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3351. Geography of Health.**

This course introduces concepts of health, health care, disease, and illness from a geographical perspective. The course will examine how people and societies interact geographically with the environment in ways that result in varying degrees of health. The focus will be on understanding health from the perspective of populations rather than individuals in a geographic context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 3353. American Ethnic Geography.**

A geographical analysis of ethnic groups in the United States with emphasis on their settlement patterns, spatial interactions, and current problems. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 3411. Maps and Mapmaking.**

An introduction to reference and thematic map use and design. The course introduces basic cartographic mapping techniques for quantitative and qualitative data, teaches about geospatial analysis and interpretation, and enables students to design basic maps. Prerequisite: GEO 2426 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3416. Principles of Remote Sensing.**

Introduction to the acquisition, mensuration, interpretation, and mapping of aerial photographs and satellite images for environmental monitoring and inventorying. Prerequisite: GEO 2410 with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3426. Advanced GIS.**

This course builds on the principles introduced in GEO 2426 and presents an in-depth examination of the technical aspects involved in spatial data handling, analysis, and modeling. Prerequisite: GEO 2426 and GEO 3301 with grades of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 3434. Water Resources.**

This course analyzes within a geographical perspective, the formation, use, conservation, and management of water resources. The students will develop a working knowledge of the hydrologic, water quality, legal, economic, political, and societal factors that determine water availability, hazards, use, demand, and allocation. Prerequisite: GEO 2410, or CHEM 1141 and CHEM 1341, with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4190. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4290. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4306. Geography of the Southwest.**

Though primarily defined by aridity, the southwestern United States is extremely diverse in its environments and its people. This course explores how people have related to this land. This course also examines current issues and future trends in natural resources and cultural processes in the region. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 4309. Cultural Ecology.**

Cultural ecology employs concepts of culture formation/change and biological ecology, with emphasis on the processes of adaptation. It provides a holistic means to interpret pre-modern, non-western, and agrarian cultures as well as modern cultures as they relate to their biophysical environment. Prerequisite: Junior or Senior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**GEO 4310. Regional Field Studies.**

Observation, description, and analysis of a geographical environment based upon off-campus study in that environment. May be repeated once, provided the second study is in a different region, for a total of 6 semester hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**GEO 4313. Environmental Management.**

This course provides an analysis of the causes of environmental problems, from local to global scale, and the evaluation of attempts at management and solutions of those problems. Emphasis will be placed on the role that geography can play in environmental degradation and management. Prerequisite: GEO 2410 with a grade of "C" or higher and senior status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4314. River Basin Management.**

The purpose of this course is to study principles and practices of large-scale river basin management. Emphasis is on integrated management of land and water resources, including economic development and environmental protection issues. Prerequisite: GEO 3434 or GEO 4325 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4316. Landscape Biogeography.**

Investigation of present-day and post-Pleistocene spatial patterns of plants, animals, and biogeographical processes. Human interactions with biogeographical patterns is also addressed, as are methods for reconstructing Holocene patterns of biogeographic distribution. Course to be taught over every other year. Prerequisite: GEO 2410 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4321. Cities and Urban Design.**

This course explores the relationships between design and urban landscapes. It analyzes urbanization and provides a critical appraisal of the role of design and material culture in shaping urban environments. Prerequisite: GEO 3310 with a "C" or higher and junior or senior status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4322. Interpretive Environmental Geography.**

Students learn principles, themes, and techniques for effective interpretation of environmental information to audiences ranging from park visitors to professional conferences. Interpretive themes are drawn from geographic concepts including the physical and cultural landscapes and cultural ecology. Techniques emphasize effective use of traditional and digital presentation methods. Prerequisite: GEO 2410 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4323. Conservation Leadership.**

This course offers an in-depth introduction to the conservation movement and the philosophy, establishment, and operation of institutions engaged in that movement. Problems and attributes of leadership will be emphasized along with the operational implications, ethical issues and other considerations for successful implementation at non-governmental, local, state, and federal levels. Restricted to Junior or Senior Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4325. Fluvial Processes.**

Students analyze modern principles of river processes and forms within a geographical perspective. This course examines the fundamental mechanics of fluvial channels with an emphasis on quantitative geographic evaluation of their processes. The course emphasizes natural scientific perspectives and includes linkages to ecology, engineering, resources management, and policy. Prerequisite: GEO 3325 or GEO 3434 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of Public Parks, Wildlife Refuges, Protected Areas, Non-Governmental Preserves and Historic Sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition. Prerequisite: Junior or Senior status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4328. Geography of the Russian Realm.**

This course presents a regional and systematic overview of the physical and human geography of the countries of the former Soviet Union. The course examines in depth issues such as the legacy of the degraded landscape and environmental problems left by decades of Soviet industrialization. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4334. Groundwater Resources.**

This course examines, within a geographical perspective, the major concepts and principles that control groundwater availability and use. Students will analyze aquifer characteristics that determine their water quantity and quality. Constraints on aquifer use including environmental, economic, societal, and legal factors will be analyzed for optimizing aquifer management and water-use policy. Prerequisite: GEO 3434 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4335. Directed Research.**

Individual and group research projects at the advanced level that are not offered in the present curriculum. Permission and project approval must be obtained from the faculty member prior to registration. This course may be repeated for credit, but a student may not exceed six hours of credit in Directed Research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEO 4336. Transportation Systems.**

This course is an examination of the evolution of urban transportation systems, policies, institutions, and methods in the United States. Principles, procedures, and techniques of transportation planning in the State of Texas are covered and students are introduced to the literature in transportation geography and methods of transportation analysis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4338. Planning Practicum.**

This capstone course focuses on methods and procedures used for planning and managing urban development on the local level. Topics include municipal ordinances, the development/redevelopment process and relationships between development, capital improvements and the local economy. Prerequisite: GEO 3320 with a "C" or higher and junior or senior status  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4339. Environmental Hazards.**

Analysis of environmental hazards with respect to human use of the land. Includes geologic hazards and problems caused by floods and meteorological conditions. Prerequisite: GEO 2410 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4340. Fundamental Themes in Geography.**

Students will become familiar with the K-12 Geography Texas Essential Knowledge and Skills (TEKS) and the national geography content standards, identify instructional resources and materials, design instructional units, and fully develop grade level appropriate inquiry based lessons and student assessments. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**GEO 4341. Water Policy.**

This course covers the evolution of water policy from the awareness of issues, through the political and legal process, to the implementation of specific plans, programs, and facilities. Prerequisite: GEO 3434 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4350. Solid Waste Planning and Management.**

A survey of the methods of solid waste disposal including waste storage, collection, transportation and disposal, and their short-and long-range effects on the environment. A practical course in the planning, implementation, and management of alternate methods of sanitary waste disposal. Prerequisite: GEO 2410 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4352. Air Quality Management.**

This course provides an assessment and analysis of air quality including types, sources, and effects of air pollutants as well as principles governing their dispersal and management. These aspects are analyzed considering physical science, economic, legal and social factors. Prerequisite: CHEM 1141 and CHEM 1341, or GEO 2410, or GEO 3305 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4355. Geography of Crime.**

This course provides understanding of geographical aspects of crime and criminal behavior. Students are exposed to theories and analysis methods and models explaining and predicting crime spatial patterns. Computer exercises give students hands on experience on crime pattern analysis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**GEO 4380. Internship in Geography.**

On-the-job training in a public or private-sector agency. Students must apply to the department internship director at least six weeks prior to registering for the internship course. This course may be repeated one time for additional internship credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**GEO 4390. Independent Study.**

Individual study under direct supervision of a professor. May involve field trips. This course may be repeated for credit, but a student may not exceed six hours of credit in Independent Study  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**GEO 4393A. Environmental Compliance.**

This course examines the implementation and enforcement of environmental statutes and regulations from a geographic perspective that includes physical environmental, cultural, social, economic, and legal parameters. The course focuses on current environmental requirements as applied to contemporary regulatory challenges including widely applicable innovative compliance strategies. Prerequisites: GEO 4313 and one course from GEO 3434, GEO 4350, or GEO 4352, with grades of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**GEO 4393B. Business Geography.**

This course provides an exploration of the geospatial analysis of business activities in the United States with emphasis on site location, market segmentation and material/product tracking  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**GEO 4411. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a cartographic portfolio of well-designed, professional grade maps. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 with a grade of "C" or higher  
**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**GEO 4412. Digital Remote Sensing.**

Introduction to the digital image processing of satellite scenes including restoration, enhancement, classification, change detection, and mapping for environmental monitoring and inventorying. Prerequisites: GEO 3301 and GEO 3416 with grades of "C" or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 4417. Digital Terrain Modeling.**

The course focuses on the mapping, transformation, mensuration, visualization, and applications of digital elevation models in Geography.

Prerequisite: GEO 3416 or equivalent with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4422. Web Mapping.**

The course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external client(s). Prerequisites: GEO 2426 and GEO 3411 or GEO 3426 with a minimum grade of "C"

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 4427. GIS Design and Implementation.**

This course involves students working as a team on a substantive GIS project, which is designed and conducted by the class. Students will develop and demonstrate competence in GIS techniques at the professional level. Prerequisite: GEO 3426 or equivalent with a grade of "C" or higher, Junior or Senior standing, and instructor approval

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 4430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents with a grade of "C" or higher. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**GEO 5150. Practicum in Teaching Geography.**

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**GEO 5190. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit. Enrollment requires consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5250. Practicum in Teaching Geography.**

An introduction to key concepts and practices in teaching Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**GEO 5290. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for total of six semester hours of credit. Enrollment requires consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5300. Applied Research Design and Techniques.**

Students will be introduced to appropriate research methods for applied geographers. Emphasis will be placed on the scientific method, productive library research, data collection and analysis, fieldwork, effective writing, and the nature of graphic representation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5301. Multivariate Quantitative Methods.**

The use of multivariate descriptive and inferential statistics as applied to geographic data and problems, beginning with the general linear model and including topics such as multiple regression, principal components analysis, discriminant analysis, and clustering algorithms. Prerequisite: GEO 3301 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5308. Regional Field Studies.**

Study of geographic phenomena during field excursions to a particular site or region. Students will study the physical and/or cultural environments through off-campus field experience. Students will research, analyze, and report on major regional geographic features. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5309. Geographical Analysis.**

A survey of typical spatial problems of interest to geographers, with emphasis on current research and application being undertaken by the faculty in the Department of Geography. Topics include environmental geography, geographic education, land use and regional development, and cartographic representation and geographic information theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5312. Managing Urbanization.**

Survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5313. Environmental Management.**

An analysis of the major causes of environmental deterioration together with the basic strategies of dealing with these problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5314. Geographic Elements of Environmental Law.**

A survey of environmental laws related to land, air, and water pollution. The nature of environmental problems will be studied as they relate to urbanization, industrialization, land development, noise, radiation and solid waste management, and the laws and guidelines that have been passed to alleviate such problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5315. Advanced Regional Studies.**

Course focus is the region. Case studies will be selected from political and functional regions. Course content will include such information as demographics, economy, physical and social environments, transportation, and foreign trade. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5316. Applied Physical Geography.**

This course is a survey of methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the physical environment. Emphasis will be on problems characteristic of particular geographic locations or specific environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5317. Seminar in Applied Human Geography.**

A focus on the methods and techniques used in the collection, analysis, and evaluation of information relating to problems within the human geographical environment. Emphasis will be on problems pertaining to particular geographic locations or special environmental settings. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5318. Environment Problems of the U.S.-Mexico Border.**

This course serves as an in-depth introduction to the physical, social, and environmental landscapes of the region of the U.S.-Mexico Border. The course applies an interdisciplinary perspective to geographic understanding of the environmental and health-related issues experienced by residents of the borderlands. Special attention is given to management and planning solutions to the region's problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5319. Seminar in Nature and Heritage Tourism.**

This seminar focuses on the special geographic issues of nature and heritage tourism. Particular emphasis is placed on sites and activities, costs and benefits, commoditization and authenticity, resource protection, and substantive learning content of nature and heritage tourism activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5322. Interpretive Environmental Geography.**

Students learn to use geographic theories and concepts to provide holistic and thematic interpretation of environmental information, as specified by interpretive principles. Students also learn advanced use of traditional and digital presentation techniques and research methods, which include audience assessment and program evaluation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5323. Location Analysis.**

Factors of importance in the decision-making process of locating both public and private sector facilities. Attention will be paid to the location of manufacturing activities, commercial enterprises, and a variety of social service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5326. Parks and Protected Places.**

This course serves as an in-depth introduction to the philosophy, establishment, and operation of public parks, wildlife refuges, protected areas, non-governmental preserves and historic sites. Students will be introduced to the scientific and policy rationale for the creation of such areas as well as methods of classification and acquisition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5329. Historical Geography of the Environment.**

This course will introduce students to ideas, concepts, and literature in historical geography of the environment. It will explore methods used to document past environments and examine environmental changes, and it will analyze the distinctions between historical geography and related fields of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5330. Geography of Natural Hazards.**

There are five areas of hazards that this course covers: (1) the interdisciplinary nature of natural hazards with emphasis on the role of geography and planning; (2) the geophysical causes of natural hazards; (3) human impact and response to natural disasters; (4) planning and management of hazards; and (5) issues and challenges facing the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5331. Geography of the Hazards of Technology.**

An investigation of the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. This course will focus on the study of spatial problems associated with technologies and the application of research to real-world management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5332. Environmental Geography of the Coastal Zone.**

Investigation of the physical geographic factors associated with the coastal zone and the role of human activities in problems and opportunities characteristic of this environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5334. Applied Water Resources.**

Application of techniques employed in water management including flood hazards, water supply assessment, and water management strategies.

Students will apply principles to specific watersheds and water problems including the analysis of various physical, land use, and legal parameters

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5335. Directed Research.**

A course designed to allow the student to pursue a topic of applied geographic research under the direct supervision of a professor.

Generally, the topic will be something that is not customarily dealt with in an organized class. Group research is encouraged. Topics should be selected that involve library research and field investigation. Progress is monitored regularly by the supervising professor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5336. Transportation Systems.**

The principles and procedures of transportation planning and management will be examined. Transport theory will be discussed as well as the characteristics of various model systems. The effectiveness of federal, state, regional, and local programs and policies will be analyzed.

Special emphasis will be placed on mass transit, particularly in view of changes in urban structure and the high costs of energy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5339. The Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulations in land management, and the human environmental impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5340. Practicum in Geographic Education.**

The content and methods needed for teaching geography in the schools. Emphasis will be on those essential elements that will allow teachers to satisfy current public school curriculum requirements. Preparation of a grade-level specific teaching unit is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5341. Contemporary Issues in Geographic Education.**

This course examines current approaches to teaching geography in American education. Specific attention will be given to new classroom materials, curriculum reform efforts, and research developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5342. Seminar: Theory and Methods of Geographic Education.**

A critical analysis of previous and current literature concerning problems in pedagogy, philosophy, teaming theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5343. Computer Technology in Geographic Education.**

The course emphasizes the applications and theoretical implications of computers in geographic education, particularly the interplay between instructional technology and educational purpose and practice in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5344. Seminar in Geographic Curriculum.**

A survey and discussion of major curricula in geographic education.

Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand-alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5349. Population Geography.**

An in-depth study of the spatial distribution and movement of human populations. Course will emphasize current issues and analytical techniques. Topics will include the impact of population growth, spatial diffusion processes, migration trends and theories, explanation of regional demographic differences, and techniques such as population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 5351. Regional Waste Management.**

The principles of effective solid waste planning and management will be examined as they relate to such activities as waste generation, storage and collection, transfer and transportation, processing and volume reduction, resource conservation and recovery, the disposal of wastes, and the handling of special wastes, particularly those of a toxic and hazardous nature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5352. Air Quality Management.**

A geographic assessment of air quality management in the United States. Spatial distribution of the types, sources, and effects of air pollutants. Meteorology and physics of air pollution dispersion. Legislative and regulatory approaches to pollution management. National, state, regional, and local policy development procedures. Geographic methods for air pollution management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5353. Emergency Management.**

This course provides an overview of the most important aspects of emergency management at all geographic scales, with emphasis on local, regional, and federal levels. Best practices and proper methodologies are emphasized as well as ways that students can develop the skills and capabilities for a career in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5360. Seminar in Planning Problems.**

A critical and in-depth examination of several problem areas currently facing the planner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5370. Seminar in Applied Physical Geography.**

Critical analysis of theories, models, and techniques of physical geographic research with the focus on application to real-world problems. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5380. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5390. Independent Study.**

Individual study under direct supervision of a professor. May involve geographic field trips. GEO 5190, GEO 5290, and GEO 5390 may be taken for a total of six semester hours of credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit. Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 5393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5393C. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs. Prerequisite: GEO 5418 or the equivalent, with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 5395. Problems in Applied Geography.**

Designed to consider a selected topic relating to applied geography. Emphasis on the practical application of geographic tools, with individual or group participation in a specific project. Course topics may vary depending on student and faculty interests and may apply to any of the three graduate tracks: physical-environmental, land area development and management, or cartography. Repeatable for up to six hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in GEO 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5408. Web Mapping.**

This course introduces students to modern interactive and dynamic mapping and GIS techniques that allow internet-based cartographic representations of temporal and non-temporal geospatial objects and phenomena. Prerequisite: GEO 3411 or equivalent with a grade of "C" or higher

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5415. Geographic Applications of Remote Sensing.**

Students will focus on Geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5417. Advanced Cartographic Design.**

This advanced course in cartography focuses on thematic map design. The objective is to produce a series of well-designed, professional grade maps (or an atlas) that students can use to build a cartographic portfolio. Theoretical concepts and principles will be introduced using practical examples and written assignments. Prerequisite: GEO 3411 or equivalent or consent of instructor

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5418. Geographic Information Systems I.**

Course is concerned with the analysis and interpretation of maps stored in digital form. Students are introduced to concepts and practices involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5419. Geographic Information Systems II.**

This course aims to develop more advanced GIS concepts and application issues, further spatial data manipulation and analysis skills, and provide hands-on experience with GIS hardware and software programs. The emphasis will be on practical application of skills to real world issues. Prerequisite: GEO 5418

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5424. GPS and GIS.**

Students will learn to plan and conduct fieldwork using Global Positioning System (GPS) to differentially correct GPS data, and to build Geographic Information Systems (GIS) applications using GPS technology. The course is project-based and involves working with external clients(s). Prerequisites: GEO 2426 or GEO 5418 or the equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 5430. Field Methods.**

Course will emphasize common field techniques necessary in the construction of accurate maps. Various kinds of data collection techniques will be presented that will facilitate geographic research. Prerequisite: GEO 3301 or equivalent

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5680. Internship.**

Application of techniques of applied geography in an actual on-the-job setting. Internships will be arranged and supervised by the Internship Director. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7150. Practicum in Teaching Geography.**

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**GEO 7190. Independent Study.**

Research in geography under the direction of a supervising professor. Repeatable once for additional credit with a different topic

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7199A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7199C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7250. Practicum in Teaching Geography.**

An introduction to key concepts and practices in the teaching of college Geography. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Geography Department. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**GEO 7290. Independent Study.**

This course is designed to provide a student with credit while conducting independent research in consultation with his or her research advisor. Repeatable once for additional credit with a different topic

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7299A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7299C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7300. Advanced Geographic Research Design.**

The purpose of this course is to develop an appreciation for the process of research as practiced by contemporary professional geographers.

Topics covered include formulating research problems, reviewing and critiquing published literature, developing and executing a research design, and completing a research project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7301. Advanced Quantitative Methods in Geography.**

How to mathematically and statistically model geographic problems is the focus of this course. The application of multivariate statistical techniques to geographic problems and the problems that spatial data create in the application of statistical and other quantitative techniques are central issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7302. Nature and Philosophy of Geography.**

This course is a critical analysis of the historical development of geographic thought: its roots, its present status, and future directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7305. Historical Geography of the American Environment.**

This course examines the spatial evolution of environmental problems in the United States using the techniques and analytical perspectives of historical geography. Special emphasis is given to the emergence of environmental problems in the context of urbanization and industrialism. The course will expose students to the most significant work by geographers in this area to date, and to the historical development of environmental geographic analysis in the U.S

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7308. Advanced Regional Field Studies.**

Advanced study of geographic phenomena during field excursions to a particular site or region. Course includes preparation of site inventory, site guides, and on-site presentations. Repeatable once for additional credit with a different site or region

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7313. Environmental Systems.**

Theories and concepts involved in environmental systems will be examined. Tools and research issues relevant to their analysis will also be explored. Basic principles, as well as specific research questions and techniques, will be proposed to give students a foundation for analysis of current issues involving environmental systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7314. Geography of Resource Development.**

This course will provide a detailed and in-depth analysis of theories, policies, and practices regarding resource development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7316. Remote Sensing and the Environment.**

A detailed examination and implementation of sophisticated approaches for processing satellite digital images with emphasis on environmental applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7318. GIS and Environmental Geography.**

This course examines the nature of environmental problems and explores the potential of GIS for environmental modeling and management. The conceptual basis for using GIS as well as the framing of environmental research problems will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7330. Geography of Natural Hazards.**

This seminar examines the interdisciplinary nature of natural hazards research, the evolution of theories and thought in natural hazards, the geophysical causes of natural hazards, human impact and response to natural disasters, and issues and challenges in the Third World

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7331. Geography of the Hazards of Technology.**

This research seminar focuses on the theories, methods, issues, and concepts of the major themes in geographic research on technological hazards. Special attention will be paid to the theoretical and conceptual understandings of hazards among both professionals and the public to evaluate how these views affect policies, choices, behaviors, and impacts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7334. Geographic Aspects of Water.**

This seminar is a critical analysis of developmental and current literature that define water's critical role in determining the physical and cultural characteristics of the earth. Principal focus will be placed on water's role on land use and as a critical resource

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7342. Theories and Methods in Geographic Education.**

This seminar is a critical analysis of previous and current literature concerning problems in pedagogy, philosophy, learning theory, research methods, teaching methodologies, and techniques of geographic education. A research paper will be required of each student on a topic related to the course content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7344. Seminar in Geographic Curriculum.**

The seminar will be a survey and discussion of major curricula in geographic education. Geography will be viewed as a school subject that is part of the social studies, as an element of interdisciplinary studies, and as a stand alone subject

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7346. Standards and Assessment in Geography.**

An introduction to assessment procedures in geography education is central to the course. Analysis of national standards in geography and how they have affected geographic learning in grades K-12 will be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7348. Ethnic Geography.**

This course will engage student in the in-depth critical analysis of the theories and methods of ethnic geography. The students will conduct careful research on a topic in ethnic geography. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GEO 7349. Population Geography.**

An in-depth study of the growth, movement, and spatial distribution of human populations is the central theme. Students will read and discuss professional articles that stress both theory and analytical techniques. Topics will include population growth and the environment, rural and small town depopulation, spatial diffusion processes, migration trends and theories, urban population growth, and techniques such as multivariate analysis and population projections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7361. Advanced Geographic Information Systems.**

This course provides exposure to advanced topics in GIS, particularly to quantitative methods and techniques for developing and interpreting models of natural and anthropogenic phenomena over the geographical space

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7362. Geographic Visualization.**

This course focuses on the interdisciplinary field of Geographic Visualization. Students will review visualization research in computer graphics, human computer interaction, GIScience, and cartography and relate the research approaches to useful and usable geographic visualizations. Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7364. Geocomputation.**

Geocomputation reviews and analyzes concepts of computational modeling in Geography. The course will include modeling theory and advanced topics such as parallel processing, neural networks, cellular automata, scientific visualization, and fuzzy modeling. Students will practice model development, specifically spatially explicit simulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7365. Theoretical Cartography.**

This course focuses on theoretical developments in cartography, and in particular looks at the role of maps and other graphic devices as tools for the discovery, analysis, and communication of geographical knowledge.

Prerequisite: GEO 3411 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**GEO 7366. Advanced Topics in Remote Sensing.**

The course focuses on advanced topics including the theoretical basis, mathematical foundations, and current research frontiers in remote sensing. Prerequisite: GEO 5415 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7370. Advanced Seminar in Environmental Geography.**

This research seminar focuses on the methods, approaches, issues, and concepts of major themes in environmental geography. Special emphasis will be placed on theoretical and conceptual understandings of how humans interact with the environment from a geographical perspective.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7371. Advanced Seminar in Geographic Education.**

This research seminar analyzes literature and research into recent trends in geographic education. Emphasis will be on new developments in curriculum, content, and teaching methodologies. Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7372. Seminar in Geographic Information Science.**

This course deals with advanced and current research issues in Geographic Information Science. Based on this objective, the course aims at educating doctoral students to conduct research in Geographic Information Science as well as develop innovative applications of Geographic Information Science. May be repeated for credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7390. Independent Study.**

Research in geography under the direction of a supervising professor.

Repeatable once for additional credit with a different topic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GEO 7391. Foundation Studies in Geography.**

Students develop knowledge and skills required for success in graduate-level coursework in Geography. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable with different emphasis. Prerequisite: Approval of graduate advisor in Geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**GEO 7393A. Qualitative Methods.**

This course introduces the qualitative research paradigm, including appropriate research design, methods of data collection, types of inductive analysis and evaluation, as well as, standards of rigor for research that calls for a deeper understanding of more complex human relationships. The focus and application will be oriented towards human geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393B. Biogeography in Mountain Environments.**

This course examines how plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms and geological factors affect spatial distribution of animals and plants; all within the environmental limitation and conditions of mountains. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**GEO 7393C. Managing Urbanization.**

This course examines survey methods and procedures related to managing and preparing for urban growth. Selected topics for examination include transportation planning, housing, historic preservation, and environmental design

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393D. International Migration.**

This course provides a survey of geographic and social science research conducted across various topics of international migration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393E. Geography of Land Management.**

This course explores U.S. land management philosophies, techniques, and development approaches. Major topics include land ethics/philosophies, U.S. traditions in cadastral geography, urban sprawl and green development, land conservation techniques, the role of local/state/federal regulation in land management, and the human-environment impacts of land development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393F. Gender and Development.**

This course is a survey of geographic and social science research conducted across various topics of gender studies and international development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393G. Political Geography.**

This course is a survey of geographic and social science research conducted across various topics of political geography

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393H. Urban Environment.**

This course explores scholarly and governmental research relating to urban environments, urban environmentalism, and urban environmental management. Emphasis is placed on the myriad ways in which human-environment interaction influences, and is influenced by, urban geography and the urban experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**GEO 7393I. Contemporary Topics in Geography Education.**

This course will be a survey of recent initiatives in geography education. This course will focus on areas such as research, assessment, and the development and use of instructional materials in relation to the National Science Foundation funded "Road Map for 21st Century Geography Education"

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393J. Soil and Society.**

This course explores the importance of soil resources for environmental and socioeconomic sustainability. Soil science will be introduced, but the majority of the course will focus on soil's value to societies. Specific topics that will be explored include soil geography, historical abuses of soil resources, and current conservation efforts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393K. Biogeomorphology.**

This course will examine the ways in which plants and animals interact with and affect geomorphological processes and landforms, and how geomorphological processes, landforms, and geological factors affect spatial distributions of animals and plants. The role of humans in affecting these interrelationships will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393L. Lidar.**

This course is an introduction to Light Detection and Ranging (lidar) systems for mapping and analysis. Students will learn to successfully apply knowledge of lidar sensors and technology for a variety of geographic information science applications. Students must have prior knowledge and experience with GIS analysis and mapping tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393M. Global Climate Change.**

This course examines various implications of global climate change, including impacts on science, politics, and society. Emphasis will be placed on anthropogenic influences across the 20th and 21st centuries, contemporary mitigation options, and future adaptation strategies amidst a complex and dynamic climate system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393N. Rivers and Society.**

This course examines river system processes and how they are influenced by human activities. We will discuss the principles and practices of large-scale river basin management with an emphasis on the different perspectives and motivations driving different management goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7393O. Exploring Spatial Databases.**

This course covers principles of spatial ontologies and spatial semantics to facilitate appropriate database conceptualization, design and implementation. Course assignments and projects will provide in-depth experience with database query languages. Many DBMSs will be reviewed, but practical work will be completed with RDBMSs.

Prerequisite: GEO 5418 or the equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEO 7399A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7399C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7415. Geographic Applications of Remote Sensing.**

Students will focus on geographic applications of the principles and practices of digital image processing, classification, and modeling using satellite images

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7417. Geographic Information Systems.**

Course is concerned with the analysis of interpretation of maps stored in digital form. Students are introduced to the concepts involving computerized cartographic and geographic data input, storage and retrieval, data manipulation and analysis, graphic and tabular report generation, and cartographic modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7418. Technical Foundations and Methods in Geographic Information Science.**

This course is concerned with the analysis and interpretation of maps stored in digital form. It will cover a variety of topics of interest to those seeking more in-depth knowledge of GIS and ancillary topics such as spatial statistics. The course provides an in-depth understanding of spatial analysis and modeling

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7430. Field Methods.**

Methods and techniques for observing, measuring, recording, and reporting on geographic phenomena are investigated in this course. Students will learn the use of instruments and materials in the collection of data for mapping and field research in the local area. Prerequisites: GEO 2410 and GEO 3301 or equivalents

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7447. Spatial Graphics in Geographic Education.**

This course examines traditional and innovative geoinformation and geovisualization technologies and their relationship to spatial thinking and the teaching and learning of geography. The course reviews academic literature, research methods, and teaching methodologies related to spatial graphics in geographic education. The lab portion provides geovisualization design skills for geographic education

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEO 7599A. Dissertation.**

Original research and writing in Geography-Environmental Geography to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599B. Dissertation.**

Original research and writing in Geography-Geographic Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7599C. Dissertation.**

Original research and writing in Geography-Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7699C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999A. Dissertation.**

Original research and writing in Environmental Geography, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999B. Dissertation.**

Original research and writing in Geographic Education, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**GEO 7999C. Dissertation.**

Original research and writing in Geographic Information Science, to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each semester (including summer) for at least three dissertation hours. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Geology (GEOL)

**GEOL 1410. Physical Geology.**

The study of materials making up the Earth, the processes that act upon them, and the results of these processes; the development of tools for the interpretation of earth's history and structure, and the major geologic concepts

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1403

**GEOL 1420. Historical Geology.**

A continuation of physical geology leading to consideration of the geologic history of the Earth (with special emphasis on North America), the evolution of life, the continents through geologic time and the principles and procedures used in the interpretation of earth history.

Prerequisite: GEOL 1410

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GEOL 1404

**GEOL 2410. Mineralogy.**

Study of the crystal systems, physical properties, classification, and hand specimen identification of common rock-forming and ore minerals. One semester of Chemistry recommended. Prerequisites: CHEM 1141 and CHEM 1341, and "C" or better in GEOL 1410 and GEOL 1420

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3400. Petrology.**

An introduction to the hand specimen and microscopic study of igneous, sedimentary, and metamorphic rocks. This course includes the origin of mineral assemblages that make up rocks and the environments of formation. Prerequisite: GEOL 2410 with a grade of "C" or better

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3410. Sedimentation and Stratigraphy.**

Principles of the weathering, transportation, deposition, and lithification of sediments. Primary structures and textures of sediments are used to determine environments of deposition. The recognition and classification of strata into stratigraphic units. Prerequisite: GEOL 2410 completed with a grade of "C" or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3430. Structural Geology.**

Description, classification, and origin of Earth structures and the stresses involved in their formation. Solution of structural geology problems using analytical geometry, geologic maps, contouring of data, and preparation of cross sections. Prerequisites: GEOL 1410 and GEOL 1420 (or equivalents)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 3440. Paleontology and Biostratigraphy.**

Identification of ancient invertebrate faunas and their applications in reconstruction of paleoenvironments, paleogeography, and the means by which "time" correlations can be effected in sedimentary strata. Field intensive course, 1 full day in the field per week. Course will be offered alternating summers. Prerequisites: GEOL 1410 and GEOL 1420 (or equivalents)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**GEOL 4121. Directed Study.**

Independent study of a particular subject area in geology. Specific topic to be discussed and agreed upon prior to registration. May be repeated once with different emphasis and professor for additional credit. Prerequisite: GEOL 1410 and GEOL 1420 with a grade of "C" or higher and approval of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEOL 4320. Topics in Field Geology.**

This course provides on-site directed investigations of geology in locations remote from campus. Prerequisite: GEOL 1410 and GEOL 1420 with grades of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GEOL 4321. Directed Study.**

This course is designed to provide a student with an opportunity to conduct independent research for credit in consultation with his or her Geology instructors. The course may be repeated once with a different content or instructor. Prerequisite: GEOL 1410 and GEOL 1420 with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GEOL 4330A. Introduction to Petroleum Geology.**

This course discusses the origin and distribution of conventional and unconventional petroleum resources, source rocks, types of traps and seals, reservoir rock properties, exploration methods (seismic data analysis and interpretation, formation evaluation, subsurface mapping), reservoir characterization and modeling, reserves calculations. Prerequisites: GEOL 1410, GEOL 1420, and CHEM 1141/CHEM 1341 with grades of "C" or higher. Co-requisite: GEOL 4121

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEOL 4330B. Planetary Geology.**

This course is a survey of the application of geologic principles to the rocky planets and satellites in the solar system. Prerequisites: GEOL 1410 and GEOL 1420 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GEOL 4421. Hydrogeology.**

This course will provide the student with an introduction to the science of hydrogeology, a conceptual and quantitative understanding of groundwater from a geological/mathematical/geochemical perspective, and experience with hydrogeology applications. Prerequisites: GEOL 1420 with a grade of "C" or higher, and CHEM 1141 and CHEM 1341

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**GEOL 5421. Hydrogeology.**

This course will provide the student with an introduction to the science of hydrogeology, a basic conceptual understanding of groundwater from a geological/mathematical/geochemical perspective, and experience with hydrogeology applications. Prerequisites: graduate standing or permission of instructor

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

## German (GER)

**GER 1410. Beginning German I.**

Introduction to listening, speaking, reading, and writing skills within a German cultural framework. Students who take GER 1410 toward degree requirements must also complete GER 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GERM 1411

**GER 1420. Beginning German II.**

Continued practice in listening, speaking, reading, and writing skills within a German cultural framework. Students who take GER 1410 toward degree requirements must also complete GER 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** GERM 1412

**GER 2310. Intermediate German I.**

Continued development and review of all language skills within a German cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GERM 2311

**GER 2320. Intermediate German II.**

More advanced practice in all language skills with greater emphasis on reading within a German cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** GERM 2312

**GER 3304A. German Cinema.**

This course explores German film, history, and theory. Emphasis is placed on the interrelation of German and American uses of the medium. The course includes classic style (1910s), German Expressionism (1920s), cinema of Nazi Propaganda (1940s), the period of reconstruction (1950s), and the German New, and New New Waves

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3304B. German Colonialism, Orientalism, and Exoticism in Film and Literature.**

This course surveys German colonial narratives and theories from the 19th and the mid-20th century. The course examines how critics today interpret the political and aesthetic tropes around which texts are organized, focusing on how these "colonial fantasies" emphasized national differences between German and other European powers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3304C. The Many Faces of Weimar Cinema: German Expressionist Films.**

The course provides an overview of the changing roles of German cinema in the early 20th century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GER 3304D. German Translation.**

In this course, students approach translation as a method of improving their reading ability in German, not only through language, but also in terms of cultural competence in dealing with texts from the German-speaking world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**GER 3305. German on the Stage.**

An introduction to upper division courses in German designed to strengthen reading skills and oral command of the language through the study and performance of short German-language plays from the classical to the contemporary period. May be repeated for credit twice with different topics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**GER 3310. German Phonetics.**

This course introduces students to German phonetics, primarily German pronunciation, intonation, and stress. The course is taught in German and can be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GER 3320. Improving German Communication Skills.**

Extensive practice in speaking and writing German and in mastering advanced grammatical structures in speaking and writing. Prerequisite: GER 2320 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GER 3370. German Civilization.**

An examination of German culture and life designed to provide a background for a better understanding of Germany and the Germans, encompassing historical survey of the development of German culture, the forces that shaped modern Germany, and a survey of contemporary German life and culture. Collateral readings; oral and written reports in German. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GER 3380. Business German in Global Economy.**

An introduction to the individual economies of each German state, the language and standards of the German business world, the tourist industry of Germany, and Germany's role in the European Community. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**GER 4310. Masterpieces of German Literature.**

An examination of major literary works representing the major genres and periods of German literature. The course may be repeated once with different content for additional credit. Prerequisite: completion of one 3000-level course or departmental approval. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**GER 4340. Advanced Conversation, Composition, and Stylistics.**

A course designed to strengthen total command of the language. Collateral readings; oral and written reports in German. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**GER 4341. Advanced German Grammar.**

Study of more advanced grammatical features of the German language essential for mastering the language and communicating effectively in it

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**GER 4390. Studies in German Culture, Language, or Literature.**

A course designed to offer students an opportunity to pursue independent studies in special areas of interest beyond those of other catalog courses. The course is generally available only to graduating seniors who have completed at least two advanced courses or graduate students with special needs. Approval by the Chair of the Department of Modern Languages is required to enroll. Applications must be submitted prior to the registration period each semester. May be repeated once for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## Health Education (H ED)

**H ED 1310. Foundations of Personal Health.**

Course provides an introduction to personal health, acquainting students with the understanding that the decisions they make affect health of self, families, friends, and communities. An emphasis will be placed on health trends and health behaviors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1304

**H ED 1320. Introduction to Health and Wellness Promotion.**

This course addresses concepts essential to understanding the discipline of Health and Wellness Promotion, including competencies and career opportunities for health education specialists in school and community settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 2338. Contemporary Issues in Drug Prevention.**

This course explores the impact of drug use and abuse on society and provides students with a critical perspective of drug-related problems. Course content includes statistics and up-to-date information on current topics in drug issues and drug prevention interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1346

**H ED 2340. Community Health.**

This course acquaints students with issues, trends, and developments, and principles in community health. The course also provides an overview of selected topics, such as epidemiology, community organization, and program planning. Prerequisite or co-requisite: H ED 1320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 2354. Emergency Response and Safety Education.**

This course prepares students to respond to and adequately care for life-threatening and non-life-threatening emergencies. The course includes lecture and laboratory activities. Emphasis is placed on healthy lifestyles and safety practices. Students can earn Cardiopulmonary Resuscitation and Responding to Emergencies certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHED 1306

**H ED 3301. Environmental Health Issues.**

An examination of the ecological impact resulting from contemporary sociopolitical action and its resulting influence on human health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3315. Statistical Analysis and Interpretation in Health and Wellness Promotion.**

This course emphasizes analysis and interpretation of health-related data. Descriptive and inferential statistics (including measures of central tendency and variability, estimation, ANOVA, and regression) will be used to understand factors associated with current health-related issues.

Prerequisites: "C" or better in H ED 1320, H ED 2340, and MATH 1315, MATH 2417 or MATH 2471. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**H ED 3321. Health in the School Setting.**

Course offers a foundation in health methods and activities to provide resources for the elementary school teacher. Provides an overview of current school health issues: Coordinated School Health Programs, mental health, personal health, family life, substance abuse, and violence in the school setting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3331. Health Education in the Secondary School Setting.**

Course offers a foundation of health methods and theory with activities to provide resources needed to become successful secondary school educators. The course will provide an overview of current secondary school health issues, such as mental health, personal health, family life, substance abuse, and violence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 3342. Adolescent and School Health Programs.**

Course will provide an understanding of function and scope of the Coordinated School Health Program (CSHP) model. Students investigate how schools function in solving youths' health problems, and focus on how child and adolescent stakeholders and communities are involved in CSHP. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 3348. Prevention of Disease.**

Course provides an overview of the etiology of communicable and chronic diseases. Special emphasis will be on health promotion activities to reduce the incidence of disease in communities and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3350. Consumer Health.**

Course focuses on consumer health and making wise decisions regarding selection of health products and services. Students will learn how to effectively evaluate health information. Special emphasis is placed on becoming a health-literate consumer, understanding legislation, and investigating products and services

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3360. Sexuality Education.**

Course provides a study of sexuality education as a lifelong process of acquiring information and forming healthy attitudes, beliefs, and values regarding sexuality. Students will access information and educational resources for implementing and advocating for sexuality instruction through health courses, sexuality education courses, and programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3374. Interprofessional Service Learning in Global Health.**

This course focuses on principles of international health and wellness promotion with global populations. Emphasis is placed on assessing, planning, implementing, and evaluating prevention strategies. Students explore roles of health educators collaborating with providers of health services to diverse populations. Prerequisite: H ED 2340 with a grade of "B" or better; repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 3376. Worksite Health Promotion.**

The purpose of this course is to introduce students to worksite health promotion. The focus of the course will be on planning, implementing, and evaluating worksite health promotion programs. The course will also address other contemporary health issues, policies, and considerations that affect worksite health promotion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4100. Professional Development in Health and Wellness Promotion.**

This one-hour seminar course provides the opportunity for students to obtain a community or clinically-based health promotion internship and to actively participate in health promotion-related professional development activities including conferences, development of resumes and interaction with health professionals. Course to be taken the semester immediately preceding the internship (H ED 4660). Prerequisite: H ED 1320 and H ED 2340 with grades of "C" or better and an Overall 2.5 GPA; Senior Classification required

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4336. Theoretical Foundations of Health and Wellness Promotion.**

Course offers an introduction to research and theories in health and wellness promotion. Special emphasis will be on community health interventions. Students will study theory and practice to understand successful and effective health education interventions. Prerequisites: H ED 1320 and H ED 2340 with grades of C or better, and an Overall GPA of 2.5 or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4347. Independent Study in Health and Wellness Promotion.**

Designed for undergraduate students who display potential for independent research in health and wellness promotion. Students work individually with faculty to develop an independent research study/project in Health and Wellness Promotion. Open on an individual basis by arrangement with the division chair. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**H ED 4350. Community Health Analysis.**

This is a survey course that focuses on evaluating community health needs; data-gathering techniques; instrument design; using data and statistics; and interpreting, reporting, and applying the findings for program development. Prerequisite: H ED 2340 with C or better. Corequisite: H ED 4340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 4640. Community Health Program Planning and Evaluation.**

Course addresses application of professional competencies in health education and promotion programs. Topics include needs assessment, data gathering techniques, instrument design, data and statistics, interpreting, reporting, and application of findings for program development. Cultural competency and communication will also be covered. Prerequisites: H ED 1320, H ED 2340, and H ED 4336 with grades of "C" or better, and an Overall GPA of 2.5 or higher. Senior classification required. (WI)

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**H ED 4660. Internship in Health and Wellness Promotion.**

This course involves the application of health education concepts to a community health setting. Students participate in the work of a health organization/agency and complete a semester-long project (480 hours). Prerequisites: Completion of all other courses required for the degree, H ED 4100 and H ED 4640 with grades of "C" or better, an overall GPA of 2.5. In addition, ESS-HCP Concentration: Grades of "C" or better in ESS 4317 and ESS 4319. Departmental Approval required to enroll. (WI)

**6 Credit Hours. 0 Lecture Contact Hours. 18 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**H ED 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the spring semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**H ED 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**H ED 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5310. History and Philosophy of Health Education.**

Intensive study of historical and philosophical contributions to health promotion program development. Current political issues, public health issues, and influential cultural changes are examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5312. Reading, Writing, and Understanding Research in Health and Wellness Promotion.**

This course provides practical experience in technical and professional writing skills. In addition, techniques to read and understand research in health and wellness promotion will be presented. Understanding application of research in school, community, and public health programs will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5315. Application of Quantitative Data Analysis in Health and Wellness Promotion (Research II).**

This course focuses on the study of introductory and intermediate statistics and procedures. Emphasis will be placed on the application level of statistics rather than the theoretical and will highlight a) how to apply statistical models, b) how to perform the analyses with social science software, and c) how to interpret findings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5320. Foundation of Public Health.**

In-depth study of past and current public health programs. Department of Health Services personnel will be utilized as guest consultants to familiarize students with various existing health programs for Texas residents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5321. Theoretical Foundations of Health Education.**

This course focuses on the presentation and critical analysis of the role of theory in health education, the description of different theories being utilized in health education research and interventions, and the application of these theories to interventions and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5325. Ethical Principles in Health Education.**

This course provides an in-depth analysis of ethical standards, principles, and behaviors related to the field of health education. Students will explore how to apply, monitor, and model ethical standards in the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5330. Topics in Health Education.**

Topics: 5330A Advanced teaching strategies. 5330B Curriculum development. 5330C Other topics as needed. May be repeated once with a different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5331. Seminar in Current Problems in Health Education.**

Current national and international trends and problems in health that affect the school age group. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5335. Health Education Leadership.**

Structured experiences for developing administrative leadership for health education programs. Included are leadership philosophy, staffing, programming, budgeting, public relations, facilities, and evaluations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5340. Community Health Program Planning and Evaluation.**

Course addresses application of professional competencies in health education and promotion programs. Topics include needs assessment, data gathering techniques, instrument design, data and statistics, interpreting, reporting, and application of findings for program development. Cultural competency and communication will also be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5345. Issues in Human Sexuality Education.**

This course provides for in depth study of sexuality education as a lifelong process of acquiring information and forming healthy attitudes, beliefs, and values regarding sexuality. Students will analyze information and educational resources for implementing and advocating for sexuality instruction through health courses, sexuality education courses, and programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5346. Literature and Research in Health and Wellness Promotion (Research I).**

This course focuses on research models commonly used in health and wellness promotion. Students will learn how to design research studies using accepted research methods in the social sciences. In addition, students will write the introduction, literature review, and methods sections common in health and wellness promotion research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5347. Independent Study in Health Education Problems.**

Allows for independent study of one or more problems in health education that hold special interest or offer opportunity for professional improvement and growth. Open on an individual basis by special arrangement with the Division Coordinator. Course graded on a credit (CR) no credit (F) basis. Repeatable once with a different emphasis.

Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5360. Internship in Health Education.**

As an essential element in the preparation of health education specialists, this 240-hour internship provides students with professionally related experience. Students may work with diverse target audiences in health education settings. Internship is approved and supervised by health education graduate coordinator. Course graded on a credit (CR) no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5374. Interprofessional Service Learning in Global Health.**

This advanced course focuses on principles of international health and wellness promotion with global populations. Emphasis is placed on assessing, planning, implementing, and evaluating prevention strategies. Students explore roles of health educators collaborating with providers of health services to diverse populations. The course may be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**H ED 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in H ED 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis. Prerequisite: H ED 5346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**H ED 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Health Information Management (HIM)

**HIM 2345. The Language of Healthcare: Spanish.**

An introduction of the practical language used in clinical settings to facilitate interaction with Spanish-speaking patients and healthcare professionals. Special emphasis is placed on the use of meaningful medical vocabulary for various healthcare professionals who work with Spanish-speaking patients and their families. Prerequisite: Two semesters of Spanish

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 2360. Medical Terminology.**

Recognizing and understanding the vocabulary of the health care professions. Emphasis on medical prefixes, suffixes, and word roots as used in oral and written communications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3301. Principles of Health Information Management.**

Exploration of the expanding role of the HIM professional. Emphasis will be on the organizational structure and delivery of healthcare in hospitals and other healthcare agencies and the associated roles of HIM professionals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3310. Fundamentals of Health Information Systems.**

An introduction to the information technology aspects of health information management to include hardware components, systems architecture, operating systems, languages, software applications, tools, and related topics and concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3311. Health Informatics, Analytics and Data Use.**

This course provides an overview and introduction to healthcare data management. Topics in the course will include the system development life cycle, project management, information infrastructure and data analytics. Implementing healthcare information systems, decision making, and consumer informatics will also be examined

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3350. Legal Aspects of HIM.**

A study of the legal issues of Health Information Management with focus on statutory and regulatory requirements, case law and practical applications. Special legal problems associated with access to patient information, disposition of records, confidentiality and privacy, reporting requirements and compliance with current state and federal legislation are emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3367. Disease and Medical Science I.**

An introduction to the general disease process. Stress is placed upon the occurrence of disease, the signs and symptoms of disease, the test values and findings of disease, and the therapeutic treatment of disease

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3368. Disease and Medical Science II.**

A continuation of Disease and Medical Science I

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3380. Quality Improvement Regulations & Procedures for HIM.**

Overview of regulatory agency requirements for quality improvement, utilization management and risk management. Methods for integrating these procedures for credentialing and peer review are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3390. Principles of Management in HIM.**

This course provides a study of the principles of management in healthcare and related organizations. The course provides the opportunity to apply the fundamentals of management including ethical decision making and human resources in the expanded role of the HIM Professional

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3463. Introduction and Technical Aspects of Health Information Management.**

An introduction into principles and procedures used in health records organization, maintenance and retention, numbering and filing systems and procedures, forms control and design, and imaging. Emphasis placed on functions and duties of the HIM administrator, and relationships of the medical record to the health care delivery system

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 3464. Coding and Classification Systems I.**

This course provides an introduction to ICD, CPT and other classifications and nomenclatures. Emphasis will be placed on the assignment of diagnosis and procedure codes. Management and the use of encoding systems is examined

**4 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**HIM 4101. Problems in Health Information Management.**

Comprehensive study of selected problems related to professional practice issues and changes in the health information management field. Emphasis will be on problem solving and application of management skills. May be repeated with permission of department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HIM 4225. Health Information Management Research and Education.**

A course of independent reading and research with the student completing a research project and developing an in-service instructional module. Emphasis is on the application of health information management theory and clinical practice. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4331. Health Information Management Research and Data Analysis.**

An introduction to research methods and experimental inquiry to acquaint the student with skills to critique and conduct studies in the health information management domains. The course will also provide the foundation for compiling, analyzing, and displaying statistics related to the delivery of healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4363. Comparative Record Systems.**

Theory and procedures for the maintenance and regulation of patient health information records in non-hospital medical care facilities to include long term care, ambulatory care, psychiatric care, rehabilitation and prison record keeping systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4364. Coding and Classification Systems II.**

This course is a continued study of ICD, CPT and other classifications and nomenclatures. The role of mapping among clinical terminologies is analyzed. The relationship with inpatient and ambulatory care reimbursement systems is also explored

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**HIM 4370. Finance and Reimbursement Methodologies for HIM.**

Course will address the reimbursement cycle from patient registration to claims billing with an emphasis on federal regulations and the role of HIM regarding payment systems. Topics will include accounting principles, budget processes, cost/benefit analysis, healthcare finance, compliance strategies, charge-master and casemix management, and payment systems and plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4383. Seminar in Health Information Management.**

Problem-solving course designed to assimilate actual internship encounters and theory. Emphasis is on integration of knowledge and making transition to the applications required to function as a health information manager

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HIM 4385. Health Information Management Practicum.**

Assignments made to promote uniformity and competency levels required of entry-level health information management professionals with practical application of administrative, management, and problem-solving skills required to complete projects and portfolio material. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4388. Practicum.**

Faculty-led administrative training for the associate degree health information progression student. Emphasis is placed on analysis of HIM personnel functions, interdepartmental relations, use of health information technology, and committee assignments. Full-time participation of the student is required

**3 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Credit/No Credit

**HIM 4389. Professional Practice Experience.**

Supervised management experience and training in a healthcare or related setting. Student will participate in administrative, management, and problem-solving activities in the institutional setting. Full-time participation is required. Option for health information associate degree and post-baccalaureate students. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 40 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Credit/No Credit

**HIM 4390. Contemporary Leadership Principles for HIM.**

An analysis of the expanded role of the Health Information Management professional in the healthcare environment and application of the principles involved. Topics include strategic planning and forecasting, marketing, entrepreneurialism, leadership, motivation, consensus building, workforce diversity, change management, work redesign/reengineering, and project management. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIM 4401. Organizational Management of Health Information Technology.**

This course studies the integrated use of health information technology throughout the healthcare organization. Students will evaluate how technology impacts the overall hospital operations from both a clinical and an administrative perspective, and will use planning and assessment tools to simulate health information technology system implementation

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 4501. Professional Practice Experience.**

Supervised management experience and training in a healthcare or related setting. Student will participate in administrative, management, and problem-solving activities in the institutional setting. Full-time participation is required in addition to scheduled campus visits. (WI)

**5 Credit Hours. 1 Lecture Contact Hour. 40 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Credit/No Credit

**HIM 5301. The Enterprise Electronic Health Record.**

This course provides an in-depth analysis of the concept of an organization-wide electronic health record system. A major focus will be on the analysis of how this technology impacts overall hospital operations from both a clinical and administrative perspective.

Departmental approval required

**3 Lecture Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5311. Informatics, Analytics and Data Use.**

This course provides an introduction to the fundamental concepts of data analytics and decision support. A major focus will be quality-driven data-based decision making systems for business intelligence, consumer informatics and health information exchanges. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5320. Research Methods for HIM.**

This course provides an introduction to research study design, methods, descriptive and inferential statistics need to conduct research studies in the Health Information Management domains. The foundation for compiling, analyzing, and displaying healthcare statistics needed to report and monitor healthcare statistics in the workplace will also be covered. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5340. Healthcare Informatics.**

This course provides an overview and introduction to healthcare informatics. Topics in the course will include the information infrastructure, data needs, implementing healthcare information systems, decision making, privacy and security, consumer informatics and emerging technologies. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**HIM 5341. Healthcare Terminologies and Vocabularies.**

This course will provide an overview of healthcare terminologies, code sets and classification schemes, and associated standards. Mapping and the relationship of SNOMED to an administrative classification system such as ICD-9-CM will be explored. The purpose and differences encountered in mapping a terminology to a classification will be examined. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5342. Information Systems and Technology.**

This course provides an introduction to the fundamental concepts of health information technologies and information management strategic planning. A major focus will be design and selection of data-driven systems that offer strategic advantages, facilitate compliance and provide a return on investment. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5351. Data Security, Privacy, and Confidentiality.**

This course provides a detailed assessment of how state laws and federal regulations influence the development and management of policies and technology to protect data security, privacy, and confidentiality of protected health information. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5363. Health Data Content Structure and Standards.**

This course provides an in-depth study of the components and use of health records. Interoperability and healthcare informatics standards for collecting, maintaining and transferring healthcare data will be examined. The role of the HIM professional in developing an effective information governance program will be analyzed. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5370. Healthcare Finance and Revenue Cycle Management.**

This course will focus on healthcare financial and revenue cycle/reimbursement management issues that impact the practice of Health Information Management. Specific topics covered include financial management, coding compliance, case mix index, revenue cycle, and reimbursement methods. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5380. Quality Improvement in Health Care.**

This course provides an in-depth study on quality improvement methodology to include data retrieval, display, outcomes analysis and the aspect of risk management for various sectors of healthcare. Mechanisms for promoting facility-wide participation in achieving optimum patient care as delineated in accreditation and government standards will be analyzed. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5382. Compliance for HIM Topics.**

Compliance activities and methods will be covered for HIM topics to include HIPAA, fraud and abuse, coding auditing, severity of illness, data analytics, fraud surveillance, and clinical documentation improvement. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5390. Contemporary Leadership Principles for HIM..**

This course explores the expanded role of the Health Information Management professional in the healthcare environment. Topics include public policy development, executive decision making, strategic business alliances, change management, enterprise wide strategic planning, stakeholder engagement, training and development, information governance, cultural diversity and ethics. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIM 5397. HIM Directed Practicum.**

This course provides a one semester, part-time practicum experience in a healthcare or related organization. Included is an orientation to the organization and completion of a project suitable for implementation at the site. Department approval required

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIM 5399A. Thesis.**

This course represents a student's initial thesis enrollment to initiate the thesis project. No thesis credit is awarded until completion of HIM 5399B. Thesis is graded on a credit (CR), progress (PR), no credit (F) basis.

Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIM 5399B. Thesis.**

This course is a student's continued enrollment in the thesis. The student continues to enroll in this course until the thesis is submitted for binding. This course is repeatable for credit until the thesis is completed. Course is graded on a credit (CR), progress (PR), no credit (F) basis. Department approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Health Professions (HP)

**HP 3302. Biostatistics.**

The course introduces major statistical concepts and procedures as applied to clinical science students with an emphasis on inferential statistics. Topics include: descriptive statistics, hypothesis testing, comparison statistics, relationship statistics, association statistics, and beginning epidemiological ratios. Students are introduced to major statistical packages. Prerequisite: MATH 1315 or MATH 1319

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**HP 3325. Healthcare Statistics.**

The course introduces major statistical concepts and procedures as applied to healthcare administration students with an emphasis on descriptive statistics. Topics include: healthcare statistical terminology, descriptive statistics, hypothesis testing, comparison statistics, relationship statistics, and association statistics. Prerequisite: MATH 1315 or MATH 1319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HP 5300. Teaching in the Health Professions.**

This course is an introduction to curriculum, instruction, and assessment methods in teaching and covers topics related to instruction in lecture, laboratories, and clinical settings. This course is required for first year teaching assistants and graduate instructional assistants. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**HP 7300. Teaching in the Health Professions.**

This course is an introduction to curriculum, instruction, and assessment methods in teaching and covers topics related to instruction in lecture, laboratories, and clinical settings. This course is required for first year teaching assistants and graduate instructional assistants. This course does not earn graduate degree credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

## Healthcare Administration (HA)

**HA 3308. Healthcare Organization.**

Overview of the healthcare system and the role hospitals have played and continue to play in the future. Analysis of organizational structure of a hospital and other healthcare agencies, administrative and management elements necessary for policy determination, decision making, and control to achieve institutional goals and objectives

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3309. Ethics in the Health Professions.**

This course introduces the student to a sound foundation in well-established ethical theories and a familiarity with terms, concepts and issues in ethics as applied to the health professions. Also provides practical methods for proceeding from considered reflection to informed action in solving ethical problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3311. Independent Study in Healthcare Administration.**

An in-depth study of a single topic or problem confronting the healthcare industry. This course affords the student an opportunity to focus on a topic/problem or group of related problems impacting healthcare managers. This course may be repeated for credit with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HA 3315. Healthcare Administration History, Culture, and Language.**

An introduction to the historical and cultural development of modern healthcare administration in contemporary American society. Special attention is given to the mores of health services delivery including critiques and use of professional behavior and language

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3324. Supervisory Management for Healthcare Managers.**

Introduction to the following functions of supervisory management: planning, organizing, staffing, influencing, and controlling; as well as the connective processes of decisionmaking, coordinating, and communicating in healthcare organizations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HA 3329. Human Resources in Healthcare Management.**

Human resource management as applicable to the healthcare field. Course will cover human resource planning, staffing, job requirements, job descriptions, sources of labor supply, training and education programs, salary administration, employee communications, legal considerations, union-management relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3340. Management of Health Information Systems.**

Provides an introduction to information systems for healthcare facilities and agencies. Covers determining what information is needed by whom; designing information flows, procurement of computer/telecommunication resources, assuring information security, and continuing management of information systems supporting healthcare delivery

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3341. Training and Professional Development in Healthcare.**

This course examines the training and professional development processes as applied to the healthcare industry. Emphasis is placed on staff developments, need analysis, task analysis, development of training and continuing education programs for healthcare personnel. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HA 3344. Patient Care Management & Quality Improvement in Health Care Integrated Delivery Systems.**

This course is an introduction of integrated delivery systems and their operations. It includes an examination of patient care management and the patient experience. A framework for understanding healthcare quality efforts is also an integral part of the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3347. Essentials of Healthcare Law.**

This course includes a review of the laws pertaining to healthcare institutions, physicians, and other healthcare workers who contribute to patient care. Tort and contract law are emphasized. The course addresses policy issues and ethics through topics like patient rights, reproduction, and end of life decisions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3375. Principles of Accounting for Healthcare Managers.**

Provides an introduction to accounting useful in healthcare facilities and agencies, and demonstrates the application of accounting principles and techniques in the healthcare field. Prerequisites: ECO 2301 or ECO 2314, and HP 3325 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 3376. Financial Management for Healthcare Managers.**

A concentration in the fundamentals of healthcare financial management including the financial organization of nonprofit facilities, sources of operating revenue, management of working capital, and the allocation, control and analysis of resources. Prerequisites: ECO 2301 or 2314, and HA 3375 or approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4121. Problems in Healthcare Administration.**

In-depth study of a singular problem considered to be of immediate concern to the health care industry. Special emphasis is placed on problems unique to managers in the field of health administration. May be repeated with permission of department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HA 4141. Healthcare Comprehensive Exam and Review.**

A course in which each of the respective faculty will review their portion of the comprehensive examination that all HA majors are required to successfully pass during their final semester of study. The comprehensive exam will be administered at the conclusion of the course

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4221. Problems in Healthcare Administration.**

In-depth study of a narrow range of topics considered to be of immediate concern to the health care industry. Special emphasis on problems unique to managers in the field of health administration. May be repeated with permission of department chair

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**HA 4305. Healthcare Services Marketing.**

The course applies the principles of services marketing to healthcare organizations. The course will present tools to identify and close the gaps that exist between customer expectation of services and the services provided and to ensure quality of health care

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4315. Health Services Problem Solving and Decision Making.**

An introduction to methodologies used to seek solutions to health administration problems which affect technical and professional personnel. Designed to place emphasis on techniques most directly applicable to models of administration and management decision making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HA 4318. Employment Law in Healthcare Management.**

This course examines the legal aspects of healthcare human resource management. Each of the major federal and state enactments impacting human resource management will be studied in depth. Prerequisite: HA 3329

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4320. Seminar in Healthcare Administration.**

Current trends and problems in health administration affecting health administration technical and professional personnel. Designed to place emphasis in selected areas of administration and management. Research paper and presentation is required of each student. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HA 4325. Healthcare Strategic Management.**

This capstone class integrates accounting, finance, marketing, MIS, and organizational behavior in the creation of sustainable competitive advantage. health care case studies will be used to illustrate key concepts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 4440. Practicum Internship A.**

Students with specialization in management participate in a health services based practicum. Experiences in providing opportunities for observation, participation, and practical application of administrative or management skills in the institutional setting are required. Must have a 2.25 major GPA and have completed all junior year major courses

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4441. Practicum Internship B.**

Studies tailored to particular interests and needs of individual students. A variety of experiences may be used to enrich the program for students with special needs or demonstrated competencies. This course is taken in the final semester of study

**4 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 4848. Healthcare Administrative Residency.**

Designed for students who have limited or no previous background in healthcare management/administration. Includes rotation through selected major departments, culminating in a major project. This course is taken in the final semester of study

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5111. Topics in Health Administration.**

An in-depth study of a singular topic or a related problem being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's current relevance and its utilitarian value to the participant. May be repeated if topic differs

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5191. Field Experience Orientation.**

This course will assist the student to prepare for the field experience and to prepare for the comprehensive exam. An extensive orientation to the field experience will be provided to better enable students to move from the classroom setting to a workplace scenario

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5211. Topics in Health Administration.**

An in-depth study of a narrow range of topics or related problems being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's relevance and its utilitarian value to the participant. Maybe repeated if topic differs

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5300. Healthcare Organization and Delivery.**

A survey of the organization and delivery of health services focusing on the history and development of health systems as they relate to the overall health and medical care systems. Major attention is given to governing bodies, patient care organizations, and executive management structures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5301. Healthcare Administration Research Methods.**

A study of research methodology as it pertains to healthcare administration. Included are hypothesis forming, designing research, and the collection, manipulation and analysis of data. Knowledge of numeracy and statistics is essential

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5303. Information Systems Management in Healthcare.**

This course provides a comprehensive introduction to information systems management for healthcare organizations. It covers the determination of information required by whom, design of information flows, procurement of information systems technology resources, assurance of information security, and management of systems integration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5304. Healthcare Economics and Financial Theory.**

A study of economic theories that have an impact on the healthcare industry. Special emphasis will be placed on emerging economic research and its impact on potential policy ramifications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5311. Trends in Health Administration.**

An in-depth study of singular trend or a related problem being faced by practicing managers in the rapidly changing healthcare industry. Special emphasis will be placed on the topic's current relevance and its utilitarian value to the participant. Examples of trends, which are typically offered, include trends in rural health, managed care ethical issues, and in total quality management. This course may be repeated for credit with a different subject area

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5316. Healthcare Financial Management.**

An introduction to healthcare financial management including the financial management in healthcare organizations, healthcare payment systems, financing and investment decisions, and financial planning, analysis, and control. Prerequisites: accounting, economics, and statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5321. Healthcare Law.**

An in-depth analysis of healthcare law and its effect on the relationships between the patient, the patient's family, the provider, and other interested third parties. Analysis of cases is the primary method of study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5325. Patient Care Management and Integrated Delivery Systems.**

A study of alternative delivery systems, managed care organizations, consumer-driven healthcare and the quality movement in health care. Quality management will be explored with special attention given to the quality management process, the role of outcomes, the characteristics, uses, and sources of quality standards, and risk management and information management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5334. Operational Decision Making for Healthcare Managers.**

An introduction to the fundamentals of selected operations research techniques essential to the analysis of healthcare managerial problem situations, the design of new and improved systems, and the implementation of systems to achieve desired systems performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5335. Public Health for Healthcare Administrators.**

This course introduces the healthcare manager to public health and its role in preventing illnesses and improving the health of the community. Students will learn of the role of the manager in disease prevention and how to participate and lead community efforts for the wellness of the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5346. Healthcare Strategic Management.**

This capstone course examines mission, vision, strategy, and operations from both the formulation and implementation perspectives. Emphasis will be on the role of the manager/leader in strategic management analysis, creativity, and action. This course is available to HA majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**HA 5355. Human Resource Management in Healthcare Facilities.**

A study of personnel administration in the healthcare facility and the environment in which it functions. Emphasis will be on the role of the Personnel Office in forecasting, developing, and managing human resources, in addition to a review of current legislation affecting the personnel function

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5356. Policy Development in Healthcare Arena.**

Prospective healthcare administrators analyze changing healthcare paradigm to determine decision-points where policies can be affected. Course allows students to apply existing skills to real world policy issues at state and national levels and to analyze policy development from numerous stakeholders' viewpoints

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5362. Healthcare Organizational Behavior/Theory.**

This course is a study of theory and concepts drawn from the behavioral and social sciences. These concepts are applied as a foundation and conceptual framework for the analysis, diagnosis, prediction and guidance of human behavior in healthcare organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5371. Marketing of Health Services.**

A study of marketing functions and principles as they relate to the healthcare delivery system. Analysis of marketing concepts such as market segmentation, marketing planning, marketing audit, marketing positioning, and marketing mix will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HA 5375. Healthcare Accounting.**

An introduction to financial accounting in healthcare with an emphasis on the preparation of non-profit financial statements for healthcare service organizations, control procedures for healthcare entities, and accounting issues unique to the healthcare industry. This course does not count for graduate degree credit. Graded on a credit (CR), no credit (PR) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**HA 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis, HA 5399B.

Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5640. Administrative Practicum.**

A one-semester, part-time field experience designed for the student already working full-time in healthcare. The practicum provides a broader orientation to the student's organization and exposure to special projects. This course is graded on a credit (CR), no-credit (F) basis

**6 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5840. Administrative Internship.**

A one-semester, full-time field experience designed for the student with no prior healthcare work experience. The internship provides a full orientation to the organization and exposure to special projects. This course is graded on a credit (CR), no-credit (F) basis

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5841. Administrative Residency.**

A full-time field experience, which provides an extensive rotation and special projects. Designed for the student with no prior work experience in healthcare. Student must be enrolled in the course for the duration of the field experience. Repeatable for credit

**8 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HA 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## History (HIST)

**HIST 1310. History of the United States to 1877.**

A general survey of the history of the United States from its settlement to the end of Reconstruction. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** American History Core 060|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 1301

**HIST 1320. History of the United States, 1877 to Date.**

A general survey of the history of the United States from Reconstruction to present. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** American History Core 060|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 1302

**HIST 2310. Western Civilization to 1715.**

A general survey of western civilization from earliest times to the end of the 17th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2311



**HIST 2311. History of World Civilization to the 17th Century.**

A general survey of world civilization from the earliest times to the 17th Century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2321

**HIST 2312. History of World Civilization from the 17th Century.**

A general survey of world civilization from the 17th Century to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2322

**HIST 2320. Western Civilization, 1715 to Date.**

A general survey of western civilization from the Treaty of Utrecht to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** HIST 2312

**HIST 3310. History of Europe, 1815-1919.**

The background, course, and results of World War I, with emphasis on imperialism, diplomatic alliances, and nationalistic rivalries from the Congress of Vienna to the Paris peace settlements. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3311. History of Europe Since 1919.**

The rise of Communism, Fascism, and Nazism; the background of World War II, and the post-war problems of peace. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3312. Renaissance and Reformation.**

The cultural, political, and economic changes that marked the transition from the Middle Ages in Europe to the modern period; special attention to the decline of the medieval church and the Protestant revolt. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3313. Europe During the Old Regime, 1600-1760.**

A study of European society and institutions in the 17th and 18th centuries with special attention to the development of absolute and constitutional monarchy, the scientific revolution, and the intellectual ferment of the Enlightenment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3314. Revolutionary Europe, 1760-1815.**

A study of the dynamics of revolutionary change in France and the rest of the European continent from the period of the Seven Years War through the fall of Napoleon Bonaparte. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3315. History of England to 1603.**

The development of the English nation from prehistoric times to the end of the Tudor Dynasty in 1603. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3316. History of England Since 1603.**

The English nation and the British Empire from 1603 through the modern era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3319. Colonial History of Brazil.**

The development of the Portuguese society in South America from the sixteenth century until 1822. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3320. History of Mexico.**

A survey of the national period of Mexican history from the independence movement to the present. (MC) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3322. Colonial History of Latin America to 1828.**

A study of the colonial period of Latin America from the early Spanish and Portuguese colonization to the beginning of the period of independence. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3324. Latin America from Independence to Present.**

This course examines the history of Latin America from independence to present. Explores the challenges of formation and consolidation of the new states; of economic policy and development; the rise of Populism and the age of reforms; revolutions and revolutionary movements; and present challenges. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325F. Militarism in Latin America.**

An in-depth survey of militarism and the causes and processes of transition to democracy in Latin America. The course will examine the major characteristics of different types of military regimes in Latin America with particular attention to the military regimes in Argentina, Chile, Brazil, and Uruguay, and their relinquishing of power for democratic transitions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325G. Modern Revolutions in Latin American History.**

This course will focus on the historical antecedents and events surrounding the Mexican, Guatemalan, Cuban, Chilean, and Nicaraguan revolutions. The purpose is to analyze these five revolutions and to come to an understanding of the current problems facing Latin America. (WI)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325H. Development and Underdevelopment in Latin America.**

This topic course discusses the economic history of Latin America from the colonial period to present and addresses the major phases of its development and the characteristics of its economics. It further discusses the several economic models that at different periods guided these economies and the differentiation of these economies at the end of the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3325I. Resistance and Rebellion in Colonial Latin America.**

This research-based course analyzes the political dynamics of resistance, rebellion, and social control within Latin American colonial societies, from the pax colonial of the seventeenth century to the Age of Andean Insurrection of the second half of the eighteenth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3326. The Southern Cone of Latin America.**

A topical survey of Argentina, Chile, Brazil, and Uruguay which stresses the political balance, geopolitical interests, and forces of commonality and division that have influenced this region since the colonial period. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3327. History of Mexico to 1848.**

A survey of Mexico from prehistoric times to the Treaty of Guadalupe Hidalgo. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3329. Spanish Borderlands, 1521-1821.**

A survey of the social, economic and political development of the frontier regions of Spain's empire in North America. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3340. History of the United States, 1877-1914.**

A survey of American history from the end of Reconstruction to the outbreak of World War I with an emphasis on the pertinent historical literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3341. History of the United States, 1914-1945.**

The study of American history from World War I through World War II with an emphasis on the pertinent historical literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3342. Social and Intellectual History of the United States, 1607-1865.**

A history of American culture, with emphasis on the development of religious, political, social, and philosophical ideas through the Civil War. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3343. Social and Intellectual History of the United States Since 1865.**

A study of the development of the United States after 1865, with emphasis on the social, political, economic, aesthetic, and philosophical ideas that have influenced contemporary American culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3344. Economic History of the United States.**

Economic history of the United States from the colonial times to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3346. The Civil War and Reconstruction.**

The history of the United States from the Compromise of 1850 through the election of 1876. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3349. The Constitution of the United States.**

An intensive study of the origin and development of the Constitution of the United States. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3352. Western America.**

A general examination of the Trans-Mississippi West, its major cultural, economic, political, and social frontiers, and its development as a region and as a national component, from 1803 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3353. The Greater Southwest.**

A general examination of the region including Texas, California, and the states dominated geographically by the Great Basin, the Southern Rockies, and the Sonoran Desert, from the earliest European contacts to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3357. History of U.S. Foreign Relations.**

A study of American diplomacy since the Civil War. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3358. The Military History of the Western World.**

A history of military institutions of the western world, with emphasis on the development of military thought, technology, and application from the earliest period to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3359. African American History.**

A survey of African-American history, 1619 to the present. Emphases include African and European backgrounds, hemispheric slavery, slavery in early America, the antislavery movement, the Civil War and Reconstruction, post-Reconstruction culture and society, and Civil Rights movement. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3361. The Napoleonic Wars.**

Examines the origin, development and consequences of the Napoleonic Wars, 1754 to 1871. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3363. Early American History to 1763.**

An intensive study of selected topics in the history of the settlement and expansion of British North America, including the development of the social, economic, and political life of the American colonies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3365. The Early American Republic.**

History of the early national era, 1788-1828, with emphasis on development of the first party system in American politics, the social and economic issues, the expansion of southern slavery, and the western frontier. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368A. Introduction to Public History.**

A topic addressing the definition, evolution, and philosophy of public history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368B. Courts and Society in Early America.**

A survey of American courts and society from its European antecedents to the mid-nineteenth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368D. Everyday America ca. 1900.**

An interdisciplinary review of U.S. History during the 1880-1920 era that considers the visual arts, architecture, material culture, technology, leisure and work of Americans at the turn of the 20th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368E. United States Westward Expansionism, 1776-1861.**

This course examines the expansion of the United State across the North American continent from the time of the American Revolution to the beginning of the Civil War. Special attention will be devoted to the Louisiana Purchase, the annexation of Texas, the Mexican Cession of 1848, and the Gadsden Purchase. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368F. History of U.S. Foreign Policy-Making in the Muslim World.**

A lecture and readings-based course in the history of U.S. foreign policy-making in the Muslim Middle East. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368H. LBJ's America.**

This is a team-taught course covering LBJ's evolution as politician. Beginning with LBJ's early career, students will learn the New Deal/Rooseveltian roots of LBJ's political philosophy. Second, students will discuss LBJ's presidency, Great Society, and Civil Rights legislation. Lastly, students will study LBJ's Cold War politics, particularly the Vietnam conflict. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368J. The Space Race.**

This course traces the history of space exploration, focusing on the competition between the United States and Russia since the launch of Sputnik in 1957. Themes include the creation and role of NASA, the scientific and economic impact of rocket science, and the political use of the space program. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368K. American Cultural History.**

This course examines the history of specific expressive, popular, and symbolic forms of US culture in shaping American intellectual life, aesthetics, and material culture during the post- Civil War – mid 20th century period. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368L. History of Mexican American Music in the Southwest.**

This class will explore Mexican American Music in all of its forms as it has developed in the American Southwest. The course will begin with an historical review of the region. It will then explore, from Islamic Spain to the contemporary Southwest, the development of musical language, styles and fusions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368M. Popular Music and Social Movements in 20th Century America.**

The examination of music as both a reflection of historical trends and a tool of social change will illuminate the relationship between music, culture, politics, and protest movements in 20th-century American history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368N. History of U.S. Foreign Policy in Indochina.**

This is an advanced course on the history of U.S. foreign policy in Indochina, especially Vietnam and Cambodia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368O. U.S. Foreign Relations from Revolution to Reconstruction.**

This course in diplomatic history explores the philosophical, social, and legal aspects of the diplomatic relations of the United States, and development of the leading principles of foreign policy in the early American republic. These studies are then set within the context of analysis via several geo-political models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368P. The U.S. and Britain in the Sixties.**

This course explores the political, social and cultural changes experienced by Americans and Britons during the "long 1960s" (1955-1975). Students will examine key events in each country separately before focusing on the commonalities and differences. Special attention will be paid to the transfer of movements across the Atlantic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368Q. History of Professional Baseball, 1869-1994.**

This course examines how the National Pastime, viewed as a game rather than a business by spectators and participants, not only reflected American culture but also represented the American Dream to both native born and immigrant. Major themes to be addressed include immigration, racism, westward migration, and owner/player/government relations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368R. History of Rock and Roll.**

This course traces the various ethnic, social, cultural, political, economic, and demographic forces in American society that helped shape Rock & Roll music. Students will also explore how this uniquely American cultural idiom mirrors the historical evolution of the United States in the second half of the twentieth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368S. History of Music and Race in the American South.**

This course examines how the complex musical landscape of the American South, including blues, gospel, jazz, folk, country, bluegrass, Cajun, zydeco, rockabilly, and others, reflects the interaction of larger social, historical, ethnic, racial, political, and economic forces in that region from the eighteenth century to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368T. American Songbook.**

This course examines the music of American from the colonial era to the 1960s. By exploring songs as primary source documents, students will analyze lyrical themes that illuminate historical trends from diverse perspectives. Beginning with British America, the course traces musical contributions of many demographic groups that comprise American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3368U. U.S. - Cuban Relations.**

This course will provide students with an overview of relations between the United States and Cuba from 1865 to 2006. Themes include economic, political, military, and cultural inter-development through Cuban independence movements, U.S. military occupation, shared cultural and economic movements, and the growing animosity from Castro's Revolution to recent years. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 3368X. Organization of the Modern American State.**

This course analyzes changes in political culture, policies, and organizational dynamics that shaped the American state, 1870 - Present. It examines how interest groups, experts, and bureaucrats helped transform a weak American state into one that affects most parts of citizens' daily lives, despite America's traditional aversion to centralized power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3369Y. Black Women and Black Protest in America.**

This course will trace the participation of Black women in every stage of Black protest in America from slavery and Reconstruction to Civil Rights and the Black Panthers. Through autobiographies, memoirs, film, literature, and monographs we will explore particular forms of Black female resistance, the unique concerns of Black female organizations, and the contradictions and successes Black women face within African-American freedom struggles. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3369Z. Immigration and Ethnicity.**

This course will focus on the history of immigration into North America from colonial times to the present. It will examine how and why various individuals and groups emigrated to America, as well as what experiences they had after arriving. This course will look at how both immigrants and native-born Americans struggled to reconcile often conflicting notions of ethnic identity and national loyalty. Finally, this course will help students evaluate the impact of immigration and ethnicity on American society. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3370. The Tools and Techniques of Historical Research and Writing.**

A survey of traditional research methodology and the basic techniques in quantitative historical research. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3371A. Conflict and Creativity in U.S. Urban and Suburban History.**

This course surveys the changing functions, scale, and quality of urban society in the United States. Special emphasis will be placed upon urban politics, or how changing demographics, physical environments, public and private institutions, and economies both grew out of and gave rise to political tensions between Americans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3371B. Health and Illness in American History.**

From concerns epidemics might undermine proper American racial orders to anxieties over democracy and health care financing (Obamacare), health and illness have reflected and shaped the ways Americans understand themselves, their policies, and their societies. This course examines two centuries of this complicated and fascinating history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3372. Texas History: A Survey.**

A one-semester survey of Texas History which will emphasize political, economic and social development from prehistory to the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3373A. Women as a Force in American Society.**

This course surveys the roles of women as a force in American history from the colonial era to modern times. Particular emphasis is given to the role of women in religious, social, and political movements throughout American history. The public activities and personal choices available to women are analyzed within the context of being female in a patriarchal society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3373B. U.S. Women's History.**

Study of the diversity of women's experiences in the United States from 1890 to the present. The social, economic, political, and intellectual realms of women's worlds, both public and private, are explored. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3373C. The History of Rural Women.**

This course surveys rural women in the United States from the founding of the nation to the present. Topics include women's work in the agricultural economy, female influence in community and agrarian organizations, and the relations ship between rural and government services from regional, national, and global perspectives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3374A. History of Christianity 1300-1700.**

This course examines selected individuals and movements that embody key concerns of Christians during the most tumultuous era in Western Church history. The course begins in the fourteenth century so that students may gain perspective on reform efforts predating, and decisively influencing, the break with Rome catalyzed by Martin Luther

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 3374B. American Religious History.**

This course in religious history explores the theological, social, and political evolution of religions and the development of the leading trends in religious beliefs and practices in the United States from pre-European encounters to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3374C. History of Religion in India.**

This course will focus on the historical development of religious traditions within India including Buddhist, Christian, Hindu, Islamic, Jain, Sikh, and Vedic

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3375A. American Labor History, 1877-1945.**

Examine the history of American labor in the era of the Industrial Revolution from the end of Reconstruction through World War II. Study the experiences of organized and unorganized workers in the context of their social, cultural, political, and workplace environments and investigate the role of labor in shaping American industrial society and institutions. Also, the course will examine managerial and public policy initiatives designed to promote labor peace and stabilize industrial relations. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3377. History of Country Music.**

This course examines the evolution of country music and how it reflects larger social, cultural, historical economic, political, ethnic, and demographic changes taking place within American society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3378. History of the Blues.**

This course examines the evolution of the blues and other forms of African-American music throughout American history, with an emphasis on how blues music reflects the rich and complex traditions of the African-American community and helped give birth to rock & roll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3380. The Desegregation of the South from 1944-1970.**

Course will address the history and the historiography of the desegregation of the South from 1944-1970. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 3381. Democracy and Education.**

This course provides an overview of the relationship (and tension) between democracy and education in the U.S. between 1865 and 1930, when emancipation, westward expansion, rural poverty, and growing immigrant and working-class populations motivated reassessment and reform of public education in an attempt to meet individual and societal needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4300. Social Studies Resources and Practices.**

This course is required for those students seeking the Social Studies Composite. This is an interdisciplinary methods course designed for students planning to teach Social Studies at the secondary level. This course will examine the philosophy behind the social sciences as well as integrate instructional techniques of History, Economics, Political Science, and Geography. Prerequisite: Departmental approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4303. Ancient Greece and the Mediterranean World, 1600 B.C. to 30 B.C..**

A survey of Greek and Hellenistic history from Mycenaean civilization to the Roman conquest of the Eastern Mediterranean. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4304. Ancient Rome and the Mediterranean 500 B.C. to 500 A.D..**

A survey of Roman History from the Republican period to the fall of the Western Empire with emphasis on its Mediterranean milieu. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4307. Medieval European History, 300-1400.**

A study of the Latin West and the Byzantine East during the Middle Ages with emphasis on the continuity of Greco-Roman culture as it encounters Islam and the Barbarians. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4317. Tudor-Stuart England, 1485-1689.**

A study of the constitutional, social, political, and religious developments in England during the Tudor-Stuart dynasties. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318A. Daily Life in the Roman Empire.**

A survey of the various aspects of daily life of the ancient Romans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318G. Western Europe and the Development of Modern Africa.**

The course will examine the impact of western Europe on the development of African countries from c1640 to present. Themes to be considered include: the impact of the slave trade, the Mfecane, European penetration and conquest of Africa, African resistance, the varieties of colonialism and the legacy of the same. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318H. Everyday Life in Europe from the Reformation through World War II.**

A social history of Europe from 1500 to 1950, which allows students to relate the "great events" of history to the lives of ordinary people. Explores developments in family life and life-cycle; changes in material culture, including food, drink, clothing, housing; and the evolution of social and cultural issues such as crime, poverty, sexuality, spiritual life and popular entertainment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318J. The Arab-Israeli Wars, 1948-1996.**

Highlights the genesis of the Arab-Israeli wars from the inception of the Jewish State in 1948 to most recent developments. Will examine the seething nationalism, religious fervor, political and economic agendas, and military developments that fanned the flames of open hostilities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318O. History of Modern Spain.**

The course traces the history of Spain from the time of Ferdinand and Isabella to the rise of the European Union. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318P. France and the Modern World.**

A survey of important phenomena in nineteenth and twentieth-century French history that have had an impact on the development of the modern world. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318Q. History of Early Modern Spain.**

Through readings, lectures, class discussions, critical film viewing, and writing assignments, this course seeks to familiarize students with the history of Early Modern Spain and its transoceanic empire between the late fifteenth century and the early nineteenth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318R. Ancient and Medieval Spain.**

Through lectures, class discussions, and critical reading, film viewing, and writing assignments, this course seeks to familiarize students with the history of Spain between approximately 800 BC and AD 1500, with an emphasis on the legacy transmitted by the successive civilizations that flourished on Spanish soil during that period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318S. Britain and the World.**

Mainstream British history still neglects the world's influence upon domestic developments, and British overseas history remains largely confined to the study of the British Empire. This course takes a broader approach, investigating Britain's interactions with the wider world from 1688 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318T. Roman and Medieval Britain.**

This course will investigate Roman and Medieval history related to the city of Chester, the Welsh Marches and the Northwest of England. Through readings, classroom discussions, close analysis of photos and videos of the sites, this course will detail the history of this problematic and often rebellious region. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318U. Industrial Britain.**

This course will examine the physical impact that industrialization had on the Great Britain - bridges, canals, factories - and the cultural/social effects on factory and seaside resort towns and ocean ports. The class will address what role industrialization played in Britain becoming world industrial and imperial power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4318V. The History of Modern Britain.**

This course examines the history of imperial Britain from the early nineteenth century to the present day. Students will analyze the cultural and intellectual foundations of modern British society, including the growth of its industrial economy, the development of representative politics, and the evolution of its relationship with its empire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 4320. Origins of Christianity.**

A survey of the development of the institutional church from the founding of the first primitive communities of believers to the rending of Christian unity in the 16th century. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4325. Islamic History to 1798.**

This course explores the history and culture of the Arab and Muslim peoples in the Middle East and North Africa from the late 6th century to Napoleon's invasion of Egypt in 1798. Emphasis is placed on the interrelationships of indigenous socio-economic structures and intellectual developments in Islamic theology and Shar' a law. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4326. The Modern Middle East.**

This course emphasizes economic social and intellectual developments in the Arab Middle East and North Africa in the 19th and 20th centuries. Some attention will be paid to Iran in the period after World War II. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4327. The Problem of Palestine.**

Examination of Arab Palestine. Ottoman records to 1914, Israel's creation in 1948, and Jordan's loss of control of the West Bank and Gaza in 1967 will be surveyed. The Palestinian Diaspora, Yasir Arafat's leadership, and the "Intifada," also will be examined. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4328. History of India.**

This course is an introduction to the history of India from ancient times to the creation of the modern nation-state of India. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4333. The History of Russia and Eurasia to 1917.**

A survey of Kievan Rus, Muscovy, and the Russian Empire to 1917. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4334. The History of Russia and Eurasia from 1917 to Present.**

A survey of the history of the former Soviet Union and post-Soviet society from 1917 to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4335. 20TH CENT EAST EUR.**

A survey of the history of Eastern Europe. May be repeated with a different emphasis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4336. Germany from 1815 to Present.**

The political, social, economic, and cultural development of Germany since Napoleonic times. Includes the Confederation period, unification under Bismarck, the Second Empire, National Socialism, and the post-war period. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4337. Germany and National Socialism, 1918-1945.**

Survey of German history and the Nazi movement. Topics covered will include the Weimar Republic, Hitler's rise to power, everyday life in Nazi Germany and in peace and war and the Holocaust. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4343. Modern China, 1600 to the Present.**

A survey of the political, social, economic, and intellectual history of China from 1600 to the present. Emphasis on the issues of domestic troubles and external aggression, and on the revolutionary changes in the 19th and 20th centuries. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4344. Modern Japan, 1600-Present.**

A survey of the political, social, economic, and intellectual history of Japan from 1600 to the present. Focus on the radical changes in the state, society, and economy in the 19th and 20th centuries and on the impact of these changes on Japan's status in the world today. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4346. Modern Korea.**

This course is a survey of the political, social, economic, and intellectual history of modern Korea, focusing on the external aggression and internal transformation between 1876 and 1910, the impact of the Japanese rule, the split into two Koreas in 1945, and the North/South developments and interactions since then. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4347. History of Hong Kong.**

This course is a survey of the political, social, economic, and intellectual history of Hong Kong from 1842 to the present. Focus is on British colonial rule, the Handover in 1997, and the current status of the Hong Kong Special Administrative Region of the People's Republic of China

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4348. Mahatma Gandhi in World History.**

Mahatma Gandhi is recognized as one of the major figures of the modern era. This course will offer students the opportunity to explore Gandhi's leadership of the movement against British colonialism in India and the legacy of Gandhi's strategies of non-violent non-cooperation in other political movements of the twentieth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350A. Slavery and Emancipation in the Americas.**

An Atlantic and continental perspective of the institutionalization of the slave trade, the adaptation of the plantation system and the evolution of slave laws, the various models of emancipation in the Americas, followed by the modified forms of indigenous and foreign slave labor adopted in the Americas. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350B. Origins of the Modern Global Economic System.**

An interdisciplinary and inter-cultural perspective that examines the rise and fall of the economic system of the thirteenth century centered in Asia and the reasons why the system was eclipsed in the fifteenth century by a new economic system centered in Europe. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350D. Empire and Identity in Central Asia.**

This course explores the historical development of local, ethnic, and national identity in Central Asia from the 13th-century Mongol conquest to the present. The course concludes with explorations of the transnational links within the region and the challenges and possibilities for the five Central Asian republics in the post-Soviet era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350E. Gender in Latin American History.**

This course surveys the role of gender in Latin American history, from pre-conquest to the present. It analyzes Latin American politics, culture, and economics, and gives particular attention to the creation and resistance of social norms. The course strengthens analytical skills through extensive discussion and writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350F. Postwar Japan.**

This course explores Japan's development from the 1940s through the 1970s. Emphasis is on the continuities and discontinuities from the wartime to the postwar regime, American influence on policies and discourses on post-occupation society, the legacies of the war in culture and society, and the repercussions of economic affluence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350J. History and Culture of Modern India.**

The course features an intensive study of the history of modern India. Course coverage includes the Mughal Empire, British Colonialism, Mahatma Gandhi and the Indian Independence Movement, and the establishment of the nations of India and Pakistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350K. Gender & Militarization in the Arab World.**

For women and men in the modern Arab world, national identity and sovereignty – or civil war – influence how they live. This class takes advantage of cutting-edge scholarship on the twentieth-century Middle East to hone students' skills in historical analysis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350L. History of Southeast Asia.**

Southeast Asia today includes eleven countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar (Burma), Philippines, Singapore, Thailand, East Timor, and Vietnam. This course will explore the region from its earliest origins through the periods of European colonialism, nationalism, revolution, and the transformation of old societies into new nations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350N. The 20th Century Middle East: Syria, Iraq, and Palestine.**

This upper-division course considers three of the nation-states under League of Nations mandates at the beginning of the twentieth century: Syria, Iraq, and Palestine. Students read a general history of the region in support of additional readings that offer in-depth discussion of specific issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HIST 43500. History of Indochina.**

This course explores the themes of diffusion, acculturation, hybridity, accommodation, and resistance in the history of Mainland Southeast Asia (also known as Indochina). The region, which has been the site of significant interaction with the larger world since ancient times, consists of Thailand, Cambodia, Laos, Vietnam, peninsular Malaysia, and Singapore. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350P. European Colonial.**

This readings course explores the development of worldwide colonial systems since the fifteenth century. Emphasis will be given to how native peoples responded to European attempts to introduce economic, political, and cultural prerogatives in a variety of world settings such as South and Southeast Asia and North and South America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 4350Q. Pirates of the Mediterranean.**

This course explores the history and culture of smugglers in the eighteenth-century Mediterranean, and the challenges they posed for states' interests in the region. Emphasis is placed on eighteenth-century US diplomatic relations with the Barbary states. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350R. Workers and Work in the Arab World.**

Of 255 million people in 22 predominantly-Arab countries in North Africa and the Middle East, over the past 150 years, most have worked at some kind of job or another. In this course we will consider how labor politics introduce state regulations to gender, national and sexual identities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350S. Piracy Through the Ages.**

An activity based on greed, and sometimes survival, piracy has existed since humans took to the seas. This course investigates the global history of piracy beginning with the Vikings. The history of piracy in the Caribbean, Asia, and the Mediterranean will be covered and compared to the piracy of today. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350U. Slavery: Past and Present.**

This course explores the significance of slavery in American history from the colonial period to today, from the emergence of racial slavery in the 17th century to human trafficking now. We will read the works of historians, journalists, and activists, as well as personal narratives of enslaved peoples. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350V. History of Pakistan.**

This course is an introduction to the history and culture of Pakistan. Broadly covering the 5000 year history of the region, from origins, the introduction of Islam and creation of the modern state, the course focuses on the cultural developments of the region, along with highlights of major political developments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350W. The Great War.**

This course will cover the history of the First World War. Co-taught, the class will examine the following topics: diplomatic origins, course of the war on the battlefield, changes in military technology, effect of Total War on the home front, propaganda, and legacy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4350X. Peace and Nonviolence Movements.**

This course explores the origins, development, and impact of peace and nonviolence movements globally. It will examine the roles that religion, class, gender, race, ethnicity, and nationalism have played in shaping social and political perceptions of injustice and public attitudes toward movement goals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4360. History of the United States, 1945 to 1968.**

A study of the interplay of economic, social, political, and cultural forces that shaped American society from the end of World War II to the presidential election of 1968. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4361. History of the United States, 1968 to the Present.**

A study of the interplay of economic, social, political and cultural forces that have shaped American society from 1968 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4363. Riddles of the Civil War.**

This course examines many unanswered questions or "riddles" of the American Civil War. Topics include, "Why Lincoln Chose to Invade," "Jomini, the Generals: Strategy and Tactics," "Lincoln, the Constitution and the War," "Interior Lines: Strategic Casual Availability," etc. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4364. Military History of the United States.**

A specialized study of the military problems of the United States since 1789 and their impact upon non-military problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**HIST 4365. Early American History: The Revolutionary Period, 1763-1789.**

A history of the American people during the age of the American Revolution, from the beginning of the crisis with Britain to the adoption of the Constitution. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4367. Antebellum America.**

A survey of conflicting American attitudes about the desirability of a strong central government, rapid economic growth, aggressive national expansion, and human slavery in a democratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4368. War and Society.**

A study of the relationship of war with social and cultural institutions from the 18th century to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4369. Introduction to Ethnohistory.**

This course familiarizes students with the ethnohistorical method, a multidisciplinary approach to the study of the historical, social, and cultural processes undergone by indigenous peoples before, during, and after contact with nation-states. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4371. Introduction to American Indian History.**

This course promotes understanding of the role played by the native peoples of North America in the history of the United States. Among the subjects to be covered through lectures and discussions: initial migrations and cultural development; impact of European conquest; adaptation; removal and reservation life; 20th century adjustments. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4372. Mexican American History.**

A survey of the political, economic, and social-cultural role of the Mexican-American in United States from the era of Spanish colonization to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4373. Economic and Social History of the Americas.**

Comparative history of the Americas with special attention to the United States, Canada, and Mexico. Explores different patterns of economic growth and their impact on societies and international relations. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4375A. Critical Issues in Texas History.**

Emphasis will be on significant critical issues in Texas history. Topics will include: Mexican independence, Texas and U.S. expansion, the Texas Revolution and the Mexican War, the Civil War and Reconstruction, Spindletop, the Depression and WWII, and the rise of urban, high-tech Texas. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4375B. African-American Experience in Texas.**

People of African ancestry have played a role in Texas history since Estebanico accompanied Cabeza de Vaca in exploring the region in the 1530s. As slaves, soldiers, and cowboys, Afro-Texans have participated in the state's development while being at the center of controversies regarding rights, racemixing and economic opportunity. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4376. The History of Texas Music.**

Examination of the evolution of music in Texas and the American Southwest, emphasizing how music reflects the richly diverse ethnic and cultural heritage of the region. It also considers the importance of ethnic identity and other social, political, and economic factors in shaping the Southwest, its people, and its music. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4380. Historical Resources and Practices.**

This course is required for students seeking teacher certification in History. This course is an introductory methods course designed to familiarize students with general historical practice and its application in secondary teaching. Prerequisite: Departmental approval required. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4388. Problems in History.**

This is an independent study course open to advanced students on an individual basis. Repeatable for credit with different emphasis. Prerequisite: Approval of the Department Chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4390. History Practicum.**

Researching, Writing, and Publishing Local History. This course will involve students in researching, writing, and publishing short historical guidebooks to sites/areas such as San Marcos, San Antonio, Fredericksburg, etc. Using desk-top publishing techniques, which are to be taught, the short (24-48 pages) guidebooks will be produced and marketed by the class. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**HIST 4399. Senior Seminar.**

This course is required for History majors not seeking teaching certification. In this course students refine skills and techniques essential to the historical profession. Students analyze primary and secondary sources, apply methods, and write a term paper. Prerequisite: 24 semester credit hours in History with a grade point average of at least 2.25 in those hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**HIST 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5300. Foundation Studies in History.**

Required as a condition of admission to the M.A. History program for otherwise qualified candidates lacking sufficient History background hours. In this course, students demonstrate necessary competency in History skills and methods to succeed in the program. This course does not earn graduate degree credit. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**HIST 5301. Instructional Methods Practicum for Graduate Assistants.**

Required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**HIST 5307. Medieval European History: Contemporary Trends in Medieval Historiography.**

This course introduces graduate students to the craft of the medieval historian, with emphasis on major contemporary shifts in American historiography of the European Middle Ages

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5308E. Latin Literature and Roman History and Society.**

A seminar based on the study of the most important Latin literary works from the 2nd century B.C. to the 2nd century A.D. No knowledge of Latin is necessary to take this seminar

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5308F. Roman History and Civilization: The "Golden Age" of Rome.**

The history of Roman civilization (political, diplomatic, economic, social, cultural, etc.) from Augustus to Marcus Aurelius (27 B.C. – A.D. 180). The main focus will be to explain what made possible this exceptional period and why it lasted so long

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5308G. Warfare in the Ancient World.**

A seminar on the nature, development, and historical significance of war in the Western World, from the Trojan War (end of the 13th century BC) to the fall of the Western Roman Empire and the establishment of Germanic kingdoms (5th century AD)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5309A. Interpreting the Eighteenth Century.**

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5309B. The French Revolution.**

A seminar designed to analyze the methods that historians have used to interpret the meaning of various phenomena such as the Enlightenment, the nature of society, and the origins of the French Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5309D. Early Modern Spain.**

A seminar based on selected topics in political, social, intellectual, and economic history of Spain from 1450 to 1815

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5310. Modern European History.**

A seminar based on selected topics in the history of Europe from 1815 to the present. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5313. Early American History.**

A seminar based on selected topics in the Colonial Revolutionary and Early National periods of the United States history. May be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5314. Ethnohistory.**

This seminar seeks to familiarize students with current questions, methods, theories, and debates in ethnohistory, a multidisciplinary approach to the history of indigenous peoples. Materials studied will include both classic and recent ethnohistorical works

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5315A. American Sexualities.**

This course addresses the history of sexualities in the United States from the colonial era to present to shed light on the ways that sexuality has shaped social life, establish conventions, and created spaces to defy norms

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5315B. Queer History: GLBT Histories in the United States.**

This course examines the histories of different sexual minorities in the United States from the colonial era to present, though the majority of the course focuses on the twentieth century, to explore the rise of the modern lesbian, gay, bisexual, and transgender identities, politics, and cultures in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316A. Women's Rights in Comparative Perspective.**

This course considers national, transnational, and global development of campaigns for women's rights since the nineteenth century. The course examines how women agitated for their rights in different cultural and historical moments. Students will gain familiarity with comparative feminisms, the gendered nature of liberal movements, and women's activism in national and international arenas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5316B. Women and Empire.**

From 1492 until World War II the globe was dominated by imperialism. This course considers the ways that women, in the metropolises of Europe and throughout colonial settings, found their lives shaped by empire

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5318A. Eighteenth Century England.**

A seminar based on selected topics in political, social, intellectual, and economic history of England from 1688 to 1815. May be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318C. The Age of the Stuarts.**

A study of selected topics in English history between 1603 and 1714

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5318D. European Imperialism.**

Europe's penchant for building empires helped to greatly enhance their influence (economic, political, and cultural) from the fifteenth to the twentieth century. The course will review the major European empires and discuss the extent of their influence during this 500 year span

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5319. The Age of the Tudors.**

This readings-based course emphasizes differing interpretations of selected topics in English history from circa 1485 to 1603. Constitutional, political, governmental, social, religious, and cultural aspects of the era are covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5323A. Society and Culture in Brazil.**

This seminar explores the social and cultural history of Brazil through its various ages, the "Age of Sugar", the "Age of Coffee", the "Age of Pedro II", the "Belle Epoque", and the worlds of the sugar and coffee barons.

It explores the character of these ages marked by the grand plantation houses, devotion to European models, and the conflict with a slave society, covering the years from the colonial period to the turn of the twentieth century. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5323B. History of Race and Slavery in Brazil.**

This course assesses the literature on race relations and slavery in Brazil. It situates the topic within a comparative, Atlantic framework and provides a critical understanding of the chief issues and debates in the field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324B. Class and Society in Latin America.**

A seminar that examines the relationship between class and society from the colonial period to the present from a cross-cultural perspective, and the role it plays in the political and economic formation of new states. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5324C. Slavery and Emancipation in the Americas.**

This course examines slavery in the Americas in its full social, political, and economic context. Students will enlarge their understanding of slavery by using an international, transatlantic framework for comparison. The course strengthens analytical skills through extensive discussion as well as significant writing and research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324D. Writing the History of Latin America: The Colonial Era.**

This readings seminar provides a critical assessment of the main themes and debates of colonial Latin American historiography. The course discusses the different paradigms under which historians have approached the cultures and societies of the region under Spanish and Portuguese rule, emphasizing on the latest trends and developments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5324E. Modern Latin American Revolutions.**

The course is a seminar that examines and compares the causes, consequences and results of Latin America's twentieth century revolutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5325A. History of Mexico to 1848.**

A topic course studying the history of Mexico from pre-historic times to the Treaty of Guadalupe Hidalgo. The course encompasses the development of Indian societies from the Yucatan to the American Southwest preceding the Spanish conquest, the social, economic, and political development of Spanish colonial Mexico, the War in Independence, and the formation of the new nation through the war with the United States. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5325C. Revolutionary Mexico.**

A graduate seminar that explores the interrelated economic, social, political, and cultural conditions and forces that shaped revolutionary Mexico. Ideological currents that impacted the period will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5325D. Mexico Since the Revolution.**

This class is a Graduate Seminar covering the History of Post-Revolutionary Mexico. This course will explore the history of Mexico since the Revolution, including the social, cultural, and economic legacies of the Revolution, as well as the process of State building, one party rule, globalization, and the transition to democracy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5335. Twentieth-Century Russia.**

A seminar based on selected topics in recent Russian history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5336. East European History.**

A seminar based on selected topics in recent East European history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5341A. Early U.S. Diplomacy - Revolution to Reconstruction.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and development of the leading principles of foreign policy in the early American republic. This course assesses the literature on diplomacy and situates the topic within a comparative, Atlantic world framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341B. Caribbean Transnationalism and Diplomacy.**

This seminar focuses on the international relations of the twentieth-century Caribbean, with emphasis on interactions between Cuba, the Dominican Republic, Haiti, Jamaica, the United States, and Venezuela. Students will analyze the ways that international action and response in these countries have affected policy, government, and international social movements

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5341C. Modern U.S. Diplomacy.**

This course explores the philosophical, social historical, and legal aspects of the diplomatic relations of the United States, and the development of leading principles of foreign policy in the twentieth and twenty-first centuries. This course assesses the literature on diplomacy and situates the topic within a comparative, transnational framework

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5343. The Progressive Era.**

This course is a seminar on the rise of industrial capitalism and corporate power and the public response to the related restructuring of the social and economic order between 1890 and 1920, with particular emphasis on the strengths and weaknesses of progressivism as a democratic movement for reform

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5344. Public Memory & American History.**

This course explores recent scholarly inquiries into the ways in which American society, and the various groups within that society, have shaped the collective memory of various aspects of the American past

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5345D. Oral History: Theory & Practice.**

A seminar based upon developing a theoretical and practical understanding of the techniques of oral historical research and document preservation and presentation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345M. History of Utopian Communities.**

This seminar examines utopian experiments in American History. Starting with John Winthrop's 1630 "City upon a Hill," the course explores both religious and secular communal ventures through the eighteenth and nineteenth centuries. The course concludes with an examination of counter-cultural, twentieth-century communes, intentional communities, and cultic separatists

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5345N. Transformation of the South.**

This course is a readings research seminar on African-American culture and life in the twentieth century South from 1890-1971. The course provides the students with a thorough historical examination through biographies and community studies of specific issues and events that ended legal segregation in the South

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345O. Immigration and Ethnicity in American History.**

This course focuses on North American immigration history from colonial times to the present and looks at how both immigrants and native-born Americans struggled to reconcile conflicting notions of ethnic identity and national loyalty. Also, this course will help students evaluate the impact of immigration and ethnicity on American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345P. History of Mexican American Music in the Southwest.**

This class will introduce students to the musical history of Islamic Spain, Spanish Colonial Mexico, and Mexico and investigate the influences of these traditions on the development of Mexican-American music in the American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345Q. Women and Citizenship.**

This course is designed to introduce students to the literature in United States Women's history that addresses the relationship of women to the state from the colonial period to the present. During this semester we will examine the historiography of Women and Citizenship, a defining concern for historians of women

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345R. History of Country Music.**

This seminar traces the various ethnic, social, cultural, political, economic, and demographic forces in American society that have helped shape country music. Students will also explore how this uniquely American cultural idiom mirrors the historical evolution of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5345S. Theories and Methods in Popular Music History/Culture Studies.**

This is a course in the theories and methods of cultural studies and popular music history for graduate students. It is intended to review the history of debates and methodologies in the field to prepare students to do original work that fits into the larger conversations in popular music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5346. African American History.**

This course is an intensive readings and research seminar in African American History. Through the uses of lectures, biographies, institutional histories and community studies, students will be introduced to the different interpretive themes and methodologies that have created the myriad of historical interpretations and reinterpretations of African American History. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**HIST 5347. Texas History.**

A seminar based on selected topics in the history of Texas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5348. History of Texas Music.**

This course examines the evolution of music in Texas and the American Southwest from pre-Colombian times to the present, with an emphasis on how music reflects the ethnically diverse history and culture of the region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5350. The Frontier in American History.**

A seminar based on selected topics in the history of the frontier in American development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5351B. Cold War America.**

This course examines the Cold War years 1945 to 1960, concentrating on the domestic scene. The class will discuss the major issues of domestic politics, society, and culture, through the use of both primary and secondary sources. They will also examine the historiography of the period

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351C. Race, Gender, and Ethnicity in American Labor History.**

This graduate seminar explores the impact of race, gender, and ethnicity upon American Labor History. Readings integrate race, gender, and ethnicity as categories of analysis into the study of class formation, experiences, and consciousness within the American labor force. The focus will be on unorganized as well as organized workers in the context of their social, cultural, political, and workplace environments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5351D. Politics & Society of Postwar America, 1945-Present.**

This course will explore the interaction of political, economic, and social forces in the years following the Second World War. Emphasis will be placed on analyzing the interdependent relationship between political structures, social movements, and economic circumstances

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**HIST 5351E. Foundations of the U.S. Conservation Movement.**

The course will provide an overview of the conservation movement from the writings of Henry David Thoreau to publication of Rachel Carson's *Silent Spring*. Emphasis will be on social and cultural influences, with particular attention to government programs, naturalist literature, activism, movement leaders, and landmarks of environmental debate

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5351F. Women in Modern America.**

This course offers graduate students an introduction in the topics, themes, and issues that animate the history of women in modern America (defined as 1861 to present)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5351H. Mexican American History.**

This course explores the histories, cultures, and politics that shape Mexican American experiences in the United States. Beginning with debates over the culture and demographics of communities in northern Mexico, this course will trace the myriad ways Mexican and Latino communities helped shape the making of the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5353. Greater Southwestern History.**

A seminar based on selected topics in the history of the Greater American Southwest

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5357. The Gilded Age.**

A seminar based on selected topics in late nineteenth-century American history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5358. Sectionalism & Slavery in the United States.**

This course assesses the literature on the causes and consequences of the sectional conflict between the American North and the South before the Civil War, with particular focus on works examining the slavery issue and the way it exacerbated American sectionalism, leading to the fracturing of the American nation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5360. American Historiography.**

A study of the literature of American history with some attention to the philosophies of history and the principles of historical research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5361. General Historiography.**

A study of literature, philosophy, and methodology of European and Latin American History

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5362. Military History.**

This seminar is based on selected topics in military history. May be repeated with different emphases up to nine hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5363. Antebellum American Society & Culture.**

This seminar explores the cultural dynamics, social relations, and political and economic structures that shaped the lives of ordinary Americans in the three decades before the Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5366A. Women in Antebellum America.**

This graduate seminar surveys the literature of the U.S. women's history for the period 1780-1865. It focuses on understanding the evolution of the field of women's history in regard to the region, class, and race of women studied and the methodological tools employed by historians. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**HIST 5366B. The Old South, 1830-1860.**

Readings will enable students to understand the Old South's economic, political, and cultural development and the development of differing interpretations and schools of thought about Old South history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5367. American Civil War.**

A seminar based on topics in the American Civil War

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5369. Music and Social Movements.**

This course examines the historical role music has played in a variety of social movements related to race, gender, ethnicity, religion, politics, economics, education, labor, civil rights, and other issues in U.S. history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5371. The Practice of Public History.**

A seminar addressing the definition, evolution, and philosophy of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5372. The Practice of Museum Studies and Material Culture.**

A seminar addressing the history, organization, and functions of history museums

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5373. The Practice of Historic Preservation.**

A seminar addressing architectural history and preservation theory and practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5374. Public History Internship.**

Application of skills in public history in an on-the-job setting. Internships will be selected by the student and instructor, and will be supervised by the instructor. May be repeated once for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5375A. Documentary Film.**

The use of film & video in public programming; research & produce documents

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375B. Archival Management.**

A seminar based on the history, theory, and practice of archival management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375C. Cultural Resource Management.**

This seminar addresses the management of cultural resources such as historic buildings, historic sites, and other tangible remains of our heritage. It explores how cultural resources are preserved and managed under federal and state law, and the nature of the regulatory practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375D. Material Culture in America.**

This course examines the interactions between people and things in American society. The ways in which Americans have created, used, altered, and thought about material objects help us to understand history. Readings and research will focus on the values and attitudes embodied in the production, use, and preservation of objects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375E. Management & Administration in Historical Organizations.**

This course provides an introduction to the non-profit based management, leadership, and administration issues and practices for historical organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375F. Education Programs in Historical/Cultural Institutions.**

This course will study the role of education programs as primary to the missions of historical and cultural institutions and will explore how institutions create and evaluate formal and informal education programs and materials for a variety of audiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375G. Preserving and Interpreting Historic Amateur Movies.**

Amateur filmmakers have documented notable people, places, and events over the last century, but noncommercial films and videos present unique challenges for both preservation and interpretation. This course explores how amateur movies contribute to the historical record and how they fit into the management of mixed-media collections

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375H. Historic Preservation in East Asia.**

Participants will explore various approaches to the conservation of the built environment in a range of East Asian societies through in-depth readings and participant-directed projects concerning Japan, Korea, Hong Kong, Singapore, Vietnam, and China. We will compare these approaches to typical western patterns of preservation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375I. Heritage in a Global Context.**

Heritage management is the interdisciplinary approach to the preservation, protection, and public use of the historical record. This course examines definitions and approaches within a global context. Theory and practice will be analyzed through case studies and real world examples. Current issues, sustainability and maritime issues/practices will be included

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375J. American Architectural History.**

This course will analyze the historical development of American architecture, and examine architecture as evidence of America's cultural, social, economic, and technological evolution from 1607 to the present. Focus will be placed on the role of historic American architecture in the practice of public history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375K. Evaluating Historic Sites.**

Every year millions of tourists flock to historic sites desiring to commune with "real" history, to "feel" the past. This course will introduce students to methods that scholars use to examine critically the interpretation of history at these sites without discounting the emotional connection to place that many visitors experience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5375L. Controversy, Power, and Politics in Public History.**

This seminar explores how controversy, power relations, and politics are embedded in the practice of public history. It is designed to help the future practitioner navigate the complex political landscape of public history. This course is informed by the professor's experience as a consultant and federal historian

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375M. Writing for Public History.**

This will be a course intensively focused on research and writing specifically for public history audiences through a variety of venues: journal articles, magazine/newspaper articles, brochures, promotional literature, personal essays, historical markers, reviews, websites, cultural resource management "gray literature," and professional papers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375N. Digital Public History.**

This course will focus on technologies that enable outreach and visitor engagement in a public history context. We will review options for presenting historical information online, through blogs, social media outreach, crowdsourcing, and virtual exhibits. This class has been designed so that students need only have proficiency with personal computing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375O. Records Management & Institutional Archives.**

This course will introduce students to the principles and theories in records management and institutional archives. It will provide practical experience creating a records retentions schedule, researching retention requirements and best practices, appraising records with enduring value, and establishing archival series to accommodate ongoing acquisition of institutional records

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5375P. The Family and Child in History and Heritage.**

This course examines the historical development of the family and childhood using academic family history methods and public approaches to family heritage. It examines differing experiences of ancestors and concepts of family and childhood over time by race, class, and gender, reflecting shifts in culture, economy, and power relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5376. Local and Community History.**

A seminar applying historical methods to the study of U.S. communities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5377. Public History Project.**

A team project focusing on one or more aspects of public history- museum exhibit, historic site interpretation, historic resources survey, etc. Repeatable with a different emphasis. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 1 Lecture Contact Hour. 6 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5379A. Public History Final Master's Project.**

This course will be the initial development of an individualized, advanced student project in cooperation with a client or host institution, focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5379B. Public History Final Master's Project.**

This course, to be taken during the last year of the Public History program, is the continuation of an individualized, advanced student project focused on any one or a combination of the public history areas of historic preservation, archives, oral history, museums, local and community history or cultural resource management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5381. Chinese Communism.**

The Chinese Communist movement from 1919 to the present. Will focus on (1) urban and rural aspects of Chinese Communism; (2) the rise to power of the Chinese Communist Party on mainland China in 1949; and (3) the construction of the Party-State and Socialism in the People's Republic of China

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5382. China and the Modern World.**

This course examines Chinese relations with the modern world from 1800 to the present, focusing on the external aggression and internal transformation between 1839 and 1945; the split into two Chinas in 1949; the mainland China/Taiwan developments, interactions between the two Chinese governments and among the world community since then

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5385. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5390. Problems in Historical Research.**

This course is open to graduate students on an individual basis by arrangement with the department. May be repeated with the approval of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5395B. Modern Middle Eastern History.**

A seminar based on selected topics in the modern history of the Muslim Middle East

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395D. Interpretations of World History.**

A survey of world history that focuses on Western civilization as the catalyst of change in world history since the tenth century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395E. Mahatma Gandhi in World History.**

In this course students explore how writers have narrated Gandhi's life and interpreted his historical role. Students will research aspects of Gandhi's life using primary sources. The focus of the course will be the study of material left out of histories on Gandhi and reasons for omitted material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395H. European Colonialism.**

This seminar examines the variety of European imperial and colonial experiences around the world from ancient to modern times through selected primary sources and historical literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**HIST 5395I. Global Cold War.**

This seminar will survey literature characteristic of the "new" Cold War historiography, and introduce students to primary sources available at Alkek required to write valuable original work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**HIST 5398. General Research Seminar.**

A seminar designed to enhance research and writing skills in history. May be repeated for credit as topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**HIST 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in History 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**HIST 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Honors (HON)

**HON 1390A. History of Ideas I: Greek Civilization.**

The course aims at surveying Greek Civilization from the beginnings through the Trojan War until the rise of Alexander the Great, concentrating on the flux of the fifth century for the most part, using selected Greek literature to attempt to instill awareness of Greek achievement and society and its continuing legacy for our own. Students will also read Greek philosophy and history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 1390B. History of Ideas I: Rhetoric Masters of Antiquity.**

We shall explore the dialogues of Plato which deal with rhetoric and its relation to philosophy, as well as the works of Isocrates and Aristotle which deal with their views of that subject. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 1390C. Greek Civilization: The Trojan War and the Western Imagination.**

The course will introduce students to Greek civilization and its impact on the western world by examining how one theme central to the Greek literary imagination-the Trojan War-influenced the development of later western literature. The course studies major texts in the Greek literary canon. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 1390D. Ideal Societies I: The Greek Experience.**

Culture and Civilization in 5th century Athens. The Greek Experience: towards a new vision of human nature and of society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 1390F. Economic Thinking: Personal Values, Social Choice & Rational.**

This class explores the sociological and philosophical effects operating in conjunction with economic decision-making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 1390H. Understanding Communication & Technology.**

The course is designed to focus on skills, research and theories about the relationships between technology and communication behavior. It teaches face to face communication skills in the contemporary technological environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 1390I. Role of the Storyteller in Society: Promoter, Protector or Provocateur.**

The course focuses on the role of the storyteller from ancient times to the present. Students will cultivate an appreciation for the oral tradition in the shaping of history, cultural identity, social mores and personal values. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2301A. Writing to Change the World.**

This course examines communication through writing to promote positive change in the world. This course will enable students to communicate their own arguments appropriate to the subject, occasion and audience. Students will choose a global issue on which to focus their writing, and perform related community service. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2301B. Writing Yourself into Academia: Creating Portraiture.**

By studying a person, a group of people, an institution, or a concept, students will create carefully researched "portraits" that integrate personal narrative, interviews, and academic research. Students will communicate their own arguments and develop ideas about the effect of the message to foster understanding and to communicate persuasively. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Communication Core 010|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2302A. Elementary Number Theory.**

This course engages students in the systematic study of problems in elementary number theory using definitions and logical deductions from these definitions. Emphasis will be on developing critical thinking and applications to modern problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2302B. Graph Theory and Applications.**

This course engages students in the study of important topics in graph theory through its applications and through proofs designed to strengthen mathematical techniques. The course will emphasize developing critical thinking and applications to modern problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303A. Teaching Physical Science to Children.**

Course content includes both physics concepts and research findings on physics teaching and learning. Students will develop a deep understanding of fundamental concepts in physical science and how these concepts relate to making sense of everyday experiences. This studio-styled physics course is ideal for pre-service K-8 teachers. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303B. Astronomy in Art, History, and Literature.**

In this class, students will combine astronomy and the humanities. They will create computer simulations of past celestial events. These results will be combined with evidence gathered from primary sources to investigate how astronomy affected history or appeared in the historical art or literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2303C. Building a Greener Future: One Home at a Time.**

Students will use basic scientific principles to investigate resource usage in our daily lives from the production of electrical energy and construction of housing to daily consumption including HVAC systems and major utilities. Students will compare energy conservation programs across the globe and evaluate how public policy effects energy consumption. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2304A. The Meaning of Death.**

By examining the moral and existential questions raised by our own mortality, students in this course will practice critical thinking and examine the variety of human responses to and understanding of death by focusing on how ideas, values, beliefs, and other aspects of culture express and affect human experience. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 2304B. Eating Animals in America: Historical and Philosophical Perspectives.**

This course examines the changing nature of, and views about, the production and consumption of animals in America from the 18th century to the present. The course will focus on the ethical and philosophical issues raised by eating animals. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2304C. Nonviolence and Sustainable Social Change.**

This course examines nonviolence as the systematic endeavor to break cycles of violence, poverty, and racism. The course will focus on investigating the ongoing force of such cycles and to formulate effective understandings for subverting and reversing such trends to offer productive contributions toward more sustainable human development. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305A. African American Popular Music: Society, Politics, and Culture.**

This course is a reading-, writing-, and listening-intensive interdisciplinary survey of African-American popular music in America and its relationship to American culture, society, politics and the other arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305B. Women and Texas Music.**

This course examines the lives and creative contributions of Texas women composers, performers, historians, and patrons, and their roles in the promotion and advancement of the arts, especially music, in Texas. This course will address topic-related issues of class, race, and identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2305C. Italy and Arts of the Islamic World.**

This course focuses on the interpretation of art in its historical context, introducing students to visual analysis and art historical interpretation to understand related scholarship exploring the relationship of Italy to the Islamic world in the medieval and Renaissance periods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306A. American History Through Memoirs.**

Through studying memoirs this course focuses on American history since the end of the Reconstruction period. The memoirs, depicting interactions among individuals, communities, states, the nation, and the world, provide an understanding of how these interactions have contributed to the development of the United States and its global role. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306B. Baseball and the American Experience.**

This study of baseball focuses on American history since the end of the Reconstruction period. As a testing ground for the persistence of racial prejudice and the expansion of civil rights, and with advances in technology and management structure, the study of baseball will expose the American experience. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306C. America in the 1960s: A History of Movements and Ideas.**

This course in the history of American social and protest movements from the end of Reconstruction through Occupy focuses in particular on the movements of the 1960s - the Civil Rights Movement, the New Left, the Women's and Homosexual Liberation Movements, and the Counterculture - and their enduring legacies in contemporary society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306D. Witches, Whores, Murderers & Thieves: Capital Crime in Early America.**

This course is an in-depth investigation into the social and legal culture of Early America through the study of microhistories. In this course, we will concentrate on a series of capital crimes, ranging from murder to witchcraft. The period will be the 17th century through 1850. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2306E. Early American History Through Biography.**

This course will examine early American history, from colonial times through 1877, through the lens of biography. Students will not only read biographical works on past figures but also analyze autobiographical writings that shed light on their lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** American History Core 060|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2307A. Democracy in America.**

This course is a study of functions performed in the American system of government, understood through the framework of Democracy in America, Alexis de Tocqueville's seminal study of American social and political life, the nature and distinctive character of modern democratic societies, and the problems and perils these societies confront. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2307B. Contemporary Issues in American Politics.**

In considering conflicts between liberty and equality with emphasis on how these principles are defined within the American system of constitutional, students will examine literature addressing race, gender, class, and sexuality in relation to events such as national elections, and to works in modern and contemporary political thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2308A. Economic Anthropology.**

This course covers central issues in economic anthropology including the production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure in various cultures. Materials will cover hunter-gatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in non-industrial countries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309A. Origins of Civilization.**

By studying literary, mythic and philosophical works selected with special attention to narratives about the origins of humanity and civilization, students will encounter a variety of explanations of human existence. The course will broaden students' perspectives and provide insight into the background of contemporary world cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309B. Re-Humanizing Communication.**

This course examines technology's impact on human communication. Students will examine their dependency on technology in order to re-humanize communication. Students will learn to express ideas through the development of interpersonal, small group, and presentational communication skills, developing command of oral, aural, written, and visual literacy in appropriate contexts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309C. Great Ideas: Humanities I.**

By studying classical foundational texts in Western culture from interdisciplinary perspectives, students will understand the origin of great ideas and relate them to today's world. Texts are chosen around a particular theme by a team of instructors to focus on the earliest recorded works up to the Renaissance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309D. Magic Realism in the Works of Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, this course offers unique insights into Latin American culture, filtered through the literary and journalistic vision of Colombia's world renowned author. Additional readings and films emphasize the complex nature of the Latin American culture and literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309E. Preserving Humanity in the Face of Conflict: The War Story Genre.**

This course provides students the opportunity to consider the human impact of several global conflicts that have occurred over the past forty years by focusing on novels, short stories, essays, and a memoir written about post-World War II conflicts in Vietnam, the Balkans, Iraq, and Afghanistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309F. CS Lewis: Chronicles of a Master Communicator.**

This course uses the writing and life of C.S. to examine communication theory and principles. Lewis's work as a speaker, teacher, broadcaster and educator provides a comprehensive body of work that students can evaluate as they master and apply rhetorical and communication theories. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309G. Nature and the Quest for Meaning.**

The class focuses on American nature writing to recognize how authors communicate about nature. Students will examine the ways in which human beings experience the natural world - as an object of study, as a reflection of themselves and as a lens to look for meaning in their lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309H. Great Ideas: Humanities II.**

By studying foundational texts in Western culture from interdisciplinary perspectives, students will understand the origin of great ideas and related them to an understanding of today's world. Texts are chosen around a particular theme by a team of instructors to focus on works from the Early Modern period to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309I. Plotting the American Experience.**

An in-depth critical study of plot in major contemporary American novels and stories from the last 20 years, both as a driving force in the works and as a reflection of the American moment in which each was written. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309J. Memoirs from Lives off the Neurotypical Map.**

To understand the growing neurologically differently abled/disabled, -ordered, and mentally different/ill population and our perceptions of them and ourselves, we will analyze memoirs and aesthetic works by this true fringe group and consider what being fundamentally different means, and how labels affect people in and out of the neurotypical majority. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309K. The Death Plot: Fiction, Memoirs, Poems.**

Students will read, discuss, and write about poems, fiction, and essays to analyze the end of life. Analysis will encompass literary, sociological, and psychological perspectives on death. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309L. Communication and Consumer Culture.**

This cultural study of the turn of the twentieth century in America focuses on advertising and popular cultural messages. Students will analyze the new culture of consumerism as they develop knowledge about communication theory and strategies and practice their own communication skills. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309M. From Jay-Z to Kendrick Lamar: Politics, Power, and Identity in Hip Hop Literature.**

Students will read, discuss, and write about the poetry of Jay-Z and Kendrick Lamar along with other texts to analyze the artists' political engagement, power to effect change, command of language, and struggle with identity formation. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Component Area Core 090|Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2309N. Don Quixote and the Birth of the Modern Novel.**

An in-depth study of 16-17th century Spanish, medieval, Renaissance, and Baroque ideas, values, and culture in the study of Cervantes' Don Quixote, the first truly modern novel. Students will examine the novel's literary antecedents and its reception through the twenty-first century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380A. Contemporary Issues In Modern Science: Philosophy of Science.**

The course will define the scientific method and examine its conceptual tools: facts, hypotheses, theories and scientific laws. The course will also examine important concepts in science from ancient time to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380C. Global Ecology and Humanity.**

An interdisciplinary introduction to the science of global environmental change and its human dimensions. Emphasis will be placed on understanding the scientific issues underlying the major components of global change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380E. Nanotechnology: Science & Technology of the Very Small.**

The course introduces the vast array of technologies and materials in the realm of nanotechnology. The ability to control matter at these very small sizes creates behavior never seen before which will affect all facets of 21st century life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380F. Introductatino of Complementary/ Alternative Medicine.**

The course introduces students to complementary/alternative medicine (CAM) and its integrate with the traditional health care system. Emphasis is placed on historical, cultural, social, research and consumer aspects of CAM. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380G. Relativity & Quantum Mechanics for Non-Science Majors.**

This course introduces principles of quantum mechanics and relativity with applications to theoretical problems and practical applications. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380H. Building a Greener Future One Home at a Time.**

This course will focus on the science and engineering principles involved in building and maintaining a house. Students will investigate how choices of materials and design influence the cost, sustainability, and energy efficiency of housing. Laboratory experiences will develop these concepts and enable students to make common household repairs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2380J. Applying Statistics to Your World.**

This course engages students in active learning through statistical software, research studies, and simulations. Students will explore the elements of statistical thinking by collecting, modeling, and drawing conclusions from data while taking into account the nature of variability. Emphasis will be on engaging with real data and understanding statistical conclusions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390A. History of Ideas II: Ideal Societies.**

A chronological survey of thought and efforts at establishing ideal societies, from ancient times to the present. Course emphasizes discussion, individual reports, essay testing, all based on a systematic look at some eleven books, plus actual attempts at utopias. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390B. History of Ideas II: On Wisdom.**

This course will be an examination of the concept of wisdom. Our study will begin with a cross-cultural study of proverbs and other wisdom literature. The class will develop its own taxonomy of the content of wise sayings and see if any universal elements exist. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390D. History of Ideas II: Old and New World Philosophy.**

Exploration of Western philosophizing about ethics, knowledge, religion, reality, art, and society. Includes New World voices of pragmatists, Blacks, Hispanics, native Americans and feminists. Half of the course is devoted to developing skills of critical thinking. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390E. History of Ideas II: Origins of the American Constitution.**

An honors colloquium which will explore classical and enlightenment traditions about the origins of government, the forms of republican government, and the American efforts to confront and resolve these questions in the Revolutionary Era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390F. History of Ideas II: New England Roots of American Culture.**

An examination, through reading of significant works as well as a trip to important sites in New England, of the roots of American culture as it was influenced by the Puritans and Transcendentalists. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390G. Philosophical issues in Lewis Carroll's Writings.**

An introductory study of philosophy, using the works of Lewis Carroll and exploring topics of critical thinking, logic, reality, ethics and the nature of language. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390H. Art & Artistic: Catalysts of Social Change.**

This course explores the catalytic role of art and artists at historically significant junctures. A focus on cultural brackets of the 20th century, post-impressionism and post-Modernism lends perspective to contemporary issues in both art and society. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390I. Biography of the Book in England and America.**

This writing intensive seminar will explore literary and scholarly readings through the cultural history of printing, publishing, selling, and reading books from the printing revolution to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390J. History of American Science & Technology.**

Explores the main developments in the history of American science and technology from the colonial era to the present. Students will situate the dominant themes of this subject in the wider context of American historical change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390K. An Introduction to Arab Culture.**

This course will focus on educating students about different aspects of the Arabic culture. The relation between the Arabic language and the Arabic culture will be introduced through the discussion of cultural expressions. The course will also touch on the relation between the culture and Islam for the students to be able to differentiate between what is cultural and what is religious. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390L. An Introduction to Islam.**

This course will focus on educating the students about basic history and cultural practices related to Islam, the prophet of Islam and Islam's holy book, The Koran. It will also focus on the relationship between the Arabic language, the Arabic culture and Islam so the students will be able to distinguish between what is cultural and what is religious. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2390M. Making Spaces: Conceptualizing, Experiencing, Modeling.**

Intensive exploration of the character of spaces we inhabit with a significant component of in-class discussion and analyses of images of works of preeminent architects/designers. Another significant component includes extensive hands-on building of precedent-based analytical/study models to teach lessons about visualizing and creating space. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391B. Role of Images in Mediating Reality.**

This course teaches students about subconscious influences on their perceptions of reality and their behavior, and the fundamentals of visual literacy by introducing students to visual literacy. Seeing is an avenue to higher-order thinking processes that will help students meet the professional, cultural and personal challenges of media. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391C. History of Ideas III: Philosophy in Film.**

The course will explore the interrelations between philosophy and film. Through readings in philosophy and viewings of films focusing on philosophical issues, the course will focus on these two questions: What contributions can the filmmaker make to the exploration of philosophical questions? and What contributions can philosophy make to the appreciation of the cinematic art? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391D. History of Ideas III: The French Revolution and the World.**

The course will explore the nature and importance of the French Revolution to Europe and the World from 1789 to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391E. History of Ideas III: World Geographic Problems.**

Inquiry into major problems facing the global community from an interdisciplinary geographical perspective. Environmental, economic, social, and political problems will be investigated with special emphasis identifying the underlying circumstances that are responsible for the problem. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391H. Perestroika in Eur.**

This course introduces liberal arts students to the fundamental ideas in science and provides the mathematical background required to give students an in-depth treatment of topics not usually accessible to liberal arts students. Topics include: geometry, trigonometry, limits, derivatives, integrals. Prerequisites: CS 1318 or MATH 1315 and MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391I. History of Ideas III: Math Foundations of Science.**

This course introduces liberal arts students to the fundamental ideas in science and provides the mathematical background required to give students an in-depth treatment of topics not usually accessible to liberal arts students. Topics include: geometry, trigonometry, limits, derivatives and integrals. Prerequisites: CS 1318 or MATH 1315 and MATH 1319. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391L. History of Ideas III: Race & Slavery in American Literature.**

Students will read selected works by American writers from all historical periods who have dealt with issues of slavery and/or the relations between African and European Americans. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391M. History of Ideas III: American Protest Literature of the 20th Century.**

An exploration of selected works of American Literature that offer explicit criticism of the country's traditions and governmental policies. Through discussions of the texts, as well as works on the nature of protest itself, students will consider the place of art in a democratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 2391P. Spirituality and Religion: A Contemporary Global Perspective.**

This course examines spirituality and religion as a universal component of human life, explores the world's major faith traditions, investigates personal and cultural biases to allow students to expand their global perspectives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391Q. History of Ideas III: African-American Protest Thought and Action.**

Course offers an examination of a variety of African-American responses to slavery, segregation and disfranchisement as well as other political, legal and economic inequalities in American life. Writings of black authors provide pathways through passive and active protest against second-class citizenship. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391R. History of Ideas III: What is Thinking (and why do we do it the way we do)?.**

This course addresses the impulse or call to think through the impulse apparent in works of art, science, philosophy, mathematics, music, science fiction and Zen. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391T. History of ideas III: The beat Generation.**

An overview of the Beat movement of the 1940s and 50s that will explore the Beats' influence on social norms, literature and politics, as well as consider the enduring influences this small group of social outcasts has on modern America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391U. History of Ideas III: American Melodramas (in Film, Novels, TV and on Stage).**

This course will examine the melodramatic tropes across four media-- novels, television soap operas, stage drama, and films-- in order to explore how melodrama serves particular social functions and how it adapts as it moves from form to form. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 2391W. History of Ideas III: Intro to Logic Through Lewis Carroll.**

An introductory study of logic, using the works of Lewis Carroll as sources. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390A. The Nature of Society: Toward a Contemporary Aesthetic.**

To examine the role of the arts in society from a historical perspective, with an emphasis on how artistic value was determined by respective societies and cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390C. Nature of Society: Renaissance Concepts of Man.**

An honors colloquium which will explore important intellectual and literary attitudes about human nature prevalent during the Renaissance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390E. The Nature of Society: Medieval Women Writers.**

A study of the lives and texts of women writers in the Middle Ages (1000-1500) with a focus on their feminine as well as their medieval perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390F. Nature of Society: Arts and Humanities.**

The course explores the importance of arts and humanities as they contributed to the development of world culture and modern society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390G. Nature of Society: Comedy and the Human Predicament.**

This course will examine the function of the comic imagination as a form of social commentary, protest, a release from anxiety, and an attempt by man to define his identity and the nature of his existence in a baffling, often incomprehensible world. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390H. Nature of Society: The Problem of Evil.**

The course will consist of a study of arguments and counterarguments about whether it is reasonable to believe in an all-knowing, all-powerful, and all-good God, despite the appearance of gratuitous evil. All major attempts to solve or dissolve the problem will be considered. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390I. The Nature of Society: Images of Death.**

Representations of Death from the Middle Ages to the Present offers students an opportunity to study verbal and visual portraits of death and examine them in terms of the individual and communal impulses which produced them. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390J. The Nature of Society: Don Quijote and the Birth of the Modern Novel.**

An in-depth study of Cervantes' Don Quijote, its literary antecedents, and its reception through the twentieth century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390K. Modern Democracy & Its Enemies.**

This course will focus on the key characteristics of 21st century democracy and the internal and external threats that challenge its health and continued existence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390L. Film Analysis: A Mini-Term in Paris.**

This course will be devoted to film analysis using an analytical method to design a written analysis centered around a single genre or director. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390M. Comedy: Form & Function, Frivolity & Filth.**

This writing-intensive seminar will examine a range of comic forms—plays, fiction, film, and performance— from literary, philosophical and social science perspectives. Prerequisites: ENG 1310 and ENG 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390N. The Avant-garde.**

This writing-intensive seminar considers the nature and practice of the avant-garde in the arts over the past century. It focuses on literature, painting, music and film from the Dada movement to the present. Prerequisites: ENG 1310 and ENG 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390O. The Anatomy of Hatred in Life and Literature.**

This writing-intensive, team-taught seminar course explores the psychological, sociological, political and religious dimensions of hatred in life and in literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390P. Hollywood Amnesia.**

The course is designed to focus on films involving the topic of memory loss. Students will analyze the psychological, social and political considerations underlying this trend in time. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390Q. Mechanical Puzzles.**

Interdisciplinary study of mechanical (tangible-object) puzzles. Students will construct, solve, and possibly invent puzzles. Themes are the history of puzzles, puzzle inventors, the logico-mathematical underpinnings of puzzles and the psychology of puzzles. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390R. Your Brain on God: Neurotheology and the Study of Mystical Experience.**

Explores religious, philosophical and scientific perspectives regarding mystical experiences. Focus on the new field of neurotheology, where neuroscience attempts to explain religious and mystical phenomena. Readings and discussions touch on how we understand consciousness and our relationship with God and other supernatural beings/experiences. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390S. Christ, Satan, and the Sacred.**

Uses religious scholarship, anthropology and Russian literature to examine evolutions of the sacred in the West. The Gnostic Gospels offer new impressions of Christ; the origin of Satan traces connections to early Christian wars; and the work of Dostoevski, Kierkegaard and Nietzsche examine man's crisis of religious faith. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390T. Federico Garcia Lorca: Politics and Passion.**

Life and works of 20th century Spanish playwright and poet as a focal point for study of Spanish history, Andalusian folklore, gender and society, and literary styles. Themes are Spanish Civil War, gypsies and Flamenco music, surrealism and oral poetic traditions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390U. Ancient Greece through Homer's Epics.**

This course explores the themes of warfare, homecoming, humans and gods, heroic ethics and concepts of a classic through the study of ancient Greece and Homer's Epics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390V. Sachertorte for all: High Times in Freud's Vienna.**

Writing-intensive seminar focusing on Vienna at the turn of the last century. Explore some of the social, cultural and political tensions inherent in Viennese life through historical, philosophical, psychological, literary, musical and visual sources. Themes include the works of Sigmund Freud, the urban experience, nationalism & anti-Semitism, and explorations of sexuality in social science, law and arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390W. Speculate Philosophy of History.**

This course examines the "grand theories" of history. It concerns the broad issues of the overall significance of the history of mankind, with the general laws of historical development and a comprehensive explanation of the nature of the historical process. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390X. Investigating European Film: From Cultural Politics to Strategies of Desire.**

This course examines the vision of the United States that European filmmakers developed. Course topics will include the American myth, the figure of the star, the status of the foreigner and the identity politics supported by film production. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390Y. Theory of Language: Language, Mind and the making of Reality.**

The course is designed for students to gain an understanding of psycholinguistics, providing insights into human cognition and how the mind creates meaning through study of syntax, semantics, pragmatics and metaphors. The course seeks to find universal principles of cognition that make human language and communication possible. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3390Z. Finding Common Ground in Teaching & Learning.**

This course explores the reciprocal relationships in teaching and learning through a focus on curriculum, the learning process, instructional materials and assessment. Increased understanding and communication between teachers and learners with multiple cultural differences is a vital global need addressed through this course. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391A. Science Fiction and Society.**

Course will examine selected works from the growing body of science (or "speculative") fiction from two points of view: literary value (use of language, style, characterization, theme, structure, and techniques), and philosophical value (insight into the human condition, humankind's relation to science and technology possible futures, and illumination of contemporary culture, society, events, and trends). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391B. The Nature of Man: Shaping of the Modern Mind.**

This course explores the ideas and institutions that have created our modern conception of the world. The course examines the importance of industrial change, our interest in science and technology, the insights of the social sciences, and new philosophies about human kind and the human condition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391K. Nature of Man: Law and Literature.**

This course will examine the process of justice as it has evolved in the west by analyzing literary works that have dealt with major legal conflicts. Our main focus will be on how writers present values in works of fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391L. The Nature of Man: Philosophical Explorations in Film.**

An Honors colloquium which will focus on philosophical themes through readings in philosophy and viewings of films; contributions the filmmaker makes to the exploration of philosophical questions and contributions the philosopher makes to the appreciation of cinematic art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Q. The Nature of Man: Chicano Literature.**

A study of poetic language, feminism and ethnicity in the works of Chicano poets. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391R. The Nature of Man: The Prisoner.**

This course will explore the themes of individualism, isolation, social control as both ingredients of modern society and particular elements in the British television series entitled "The Prisoner," which appeared in 17 episodes during 1968. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391S. The Nature of Man: Voices in French Cinema.**

A course in French film and French film history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391T. The Nature of Man: The Japanese Psyche.**

An honors colloquium comparing the Japanese and American psyches and considering the potential significance to humanity and its planet of mutual learning and harmony between these two leading representatives of east and west. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391U. The Nature of Man: Faith and Doubt in Western Literature.**

The course will examine Western literary treatments of religious faith, showing how author's approaches to belief, faith and spirituality changed over time. It covers two large historical periods: from the Middle Ages to around 1800 and after the 1800s. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391V. History of Ideas II: Contemporary Native American Women Writers.**

Fiction and poetry by contemporary Native American writers examined in lights of tribal cultures, encounters and conflicts with the dominant white, European culture, and the influence of the literary canon of the dominant culture. This course will also compare and contrast the role of women in tribal cultures to their role in the dominant culture and consider the significance of gender in works studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391W. Service Learning: A Study Abroad Course.**

This study abroad course will center on students' experiences volunteering with non-profit and/or government institutions abroad. Discussions and written assignments will provide opportunities to analyze the volunteer experiences. Field trips will provide cultural components to add to the discussion and written assignments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391X. The Nature of Man: Representing Technological Change.**

In this course, scientific paradigms, myth, fiction, law and film will be used to investigate the impact of technology on our lives. We will critically explore the relationship between science and myth, asking whether science is sufficient to represent technological change, or if, perhaps, some form of cultural representation is necessary to capture the experiential impact of technology on our lives. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Y. History of Ideas III: Postmodernism.**

A thoroughly interdisciplinary study of postmodernism, as manifested in recent philosophy, social theory, literature, art, music, architecture, and technology. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3391Z. The Nature of Man: Geographic Investigation of the Changing Ethnic Composition in Texas.**

Spatial and temporal trends of the changing ethnic composition in Texas will be investigated, by identifying and reading relevant sources, and through weekly discussions. Political, economic and environmental impacts of these trends also will be examined. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392A. Nature of the Human Experience: Gender and Fiction.**

We will study fiction by both men and women in order to consider how (or whether) gender identity manifests itself in writing. We will consider texts written in English from the eighteenth century to the present, including not only works regarded as especially "masculine" or "feminine" but also works written from the perspective of the "other" gender. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392B. Religion, Social Science, and the Quest for Meaning: An Intellectual Assault on the ineffable.**

This course examines religious beliefs and "faith" as a "way of knowing" from the perspective of modern social science: Are we consigned to a choice between naive acceptance of religious tradition ("healthy illusion") versus complete reflection of anything beyond sensory experience ("meaninglessness")? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3392C. Nature of the Human Experience: Medieval Pilgrimage Literature.**

This seminar examines three major works of late 14th and early 15th century England: William Langland's *Piers Plowman*, Geoffrey Chaucer's *The Canterbury Tales*, and *The Book of Margery Kempe*. They all allude to pilgrimage in terms of metaphor, plot, structuring agent, theme or actual experience. We will be concerned with theological, historical, cultural and social contexts for the literature. Other issues of major importance to be explored are power-political, religious, sexual-and gender. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392D. The Nature of the Human Experience: War and the News Media: From Vietnam Through Desert Storm.**

This seminar-styled course critically analyzes the interaction of the news media, the government and the military from the Vietnam War through Desert Storm. Journalists and their coverage are placed in a historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392E. Nature of the Human Experience: Silver Screen Texas.**

The course explores Texas history, culture, and identity through the popular medium of theatrical films. Students are asked to learn about and analyze the relationship between the image of Texas in popular culture and the historical reality of the subject matter. Major Texas themes such as race relations, westward expansion, the cattle-cotton-oil complex, and the Depression will be subjected to critical analysis both in class discussion and in writing projects. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392F. God.**

Can an all-powerful God make a stone that is too heavy for God to lift? Can an all-knowing God know for sure what persons will do before they do it? Can belief in an all-knowing God be squared with belief in persons having free will? What are the meanings of omnipotence, omniscience, and other divine characteristics, and are they consistent? Can God be known to exist without arguments? The course will address these and related questions. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392G. Nature of the Human Experience: Gender, Family, and the Horror Narrative.**

This course will draw upon novels, short stories, and films to examine how horror has historically been used to dramatize widespread social concerns, particularly concerns having to do with gender and the family--areas whose "uncanny" aspects artists may choose to address through fantasy and the supernatural rather than head-on. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392H. Nature of the Human Experience: Sense of the American South.**

This course will examine the literature, culture, and history of the American South from Thomas Jeffersonian Idealism to the present. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392I. Nature of the Human Experience: Rock, Roll, and Rebellion.**

A Definitive Study on How the Music of the 50's-70's Reflected the Social Changes of the Baby Boomer Decade. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392J. Statistics and Shakespeare: Quantifying the Unquantifiable.**

This introductory course applies descriptive statistics, probability and inferential statistics to the study of Shakespeare. Students will also apply these statistical tools to the study of other liberal arts disciplines such as psychology, sociology, education, geography and others. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392K. The Nature of the Human Experience: Cybermarketing.**

This course is a study of the marketing process on the World Wide Web (WWW). It examines Cybermarketing in the light of social, cultural, political, legal, economic, technological and demographic factors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392L. Nature of the Human Experience: The Idea of the Grotesque.**

This course investigates the theme of the grotesque in American literature, starting with "The Book of the Grotesque," in Sherwood Anderson's *Winesburg, Ohio*, and including other novels and films. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392M. The New and Literary Journalism.**

The new literary journalism examines the genres of the new and literary journalism in light of literature; certain eras in reportage, i.e., war dispatches, philosophy, and the social sciences, among other disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3392N. Modern Organizations' Perspectives.**

The course provides a conceptual and practical perspective on Modern Organizations. It is designed to stimulate the student's curiosity about management practices of companies pursuing a competitive advantage through modern philosophies, and to identify potential areas to apply their chosen field of study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392O. God as a Literary Character.**

This course will examine the Bible as literature, but from the perspective of writers and biographers. How God functions as a "character" in the text, and the work's profound influence on western literary writers, will be explored. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392P. The Nature of the Human Experience: Technology & Gender in Film.**

Gender and Technology in Film will include a survey and analysis of films and theoretical and literary texts, with a focus on how gender, technology, and body images are depicted in film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Q. Nature of the Human Experience: Forensic Scientific Evidence.**

A study of the use of scientific evidence and expert witnesses in criminal prosecutions, including issues of evidence gathering, testing, analysis, admissibility and presentation in court. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392R. Teaching Children to Write Poetry.**

A study of books by Kenneth Koch describing his work and lessons teaching poetry to children for the past 30 years. Students will examine his ideas about the importance of teaching poetry to children, using classical poetry as well as lessons that draw forth a creative response from children. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392S. The Nature of the Human Experience: Violence and Terror in 20th Century.**

This course will examine the biological and social aspects of violence from the perspective of anthropology. Students will examine specific incidents of violence and terror in various cultural settings and attempt to draw theoretical conclusions about the place of violence and terror in human society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392T. The Nature of the Human Experience: Integrated Marketing Communications.**

Integrated marketing communications is an interdisciplinary course designed to acquaint students with the principles and practice of integrated marketing communications. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392U. The Nature of the Human Experience: U.S. Cultural Elite and power.**

This course examines the theories and documentation of elite and pluralist theory models of government control. Classical social and philosophical works serve as the foundation for the course. We will examine the capitalist structure and the social and political implications of the globalization of the economy including concerns of a meritocratic society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392V. Nature of Man: Elementary Number Theory.**

This course is the systematic study of problems using definitions and logical deductions from these definitions. Elementary number theory provides an ideal medium for such a study since all basic types of mathematical proofs occur in a setting requiring no prior background. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392W. The Nature of the Human Experience: Art, Society & Urban Space in Modern Barcelona & Madrid.**

The course will review the connections between the arts, politics, and society of Modern Spain through the study of texts and movies that concentrate on the two political and cultural capitals of Madrid and Barcelona. These two cities are the premier examples of the industrialization process of Spain and both were artistic centers during the first quarter of our century. The class will explore also the nationalist tensions between Catalonia and Spain's center and the struggles for political and linguistic autonomy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392X. The Nature of the Human Experience: The Contemporary African Novel in English.**

Novels by contemporary African writers from West Africa, East Africa, and Southern Africa will be read and discussed. The class will also study the effects of colonialism on traditional African cultures. Students will consider problems of language in the African novel. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Y. The Nature of the Human Experience I: Immortality.**

Is it reasonable to believe in life after death? The course will consist in attempts to answer this question with rational arguments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3392Z. Ethnic Drama in the U.S..**

The course acquaints students with contemporary ethnic theatre from four American cultures, African, Latino, Native and Asian American. Students will also research playwrights, production and reviews of plays. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393A. Intuition: The Other way of Knowing.**

This is an intensive lecture, discussion, writing, and experiential course in which the human faculty of intuition is considered as a means of perceiving experience and negotiating the material environment. Intuition is considered from viewpoints of evolution/survival, psychoanalysis, cognitive psychology, philosophy, and natural science. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393B. Quest for Order & Justice in Law.**

This course explores the nature of law. It examines diverse perspectives of law expressed in legal texts, religious texts and literature, in order to identify tensions between two important ends of law. Law is a source of social order and it is a source of justice. But these ends sometimes conflict. The course begins by indentifying this conflict and analyzing arguments that resolve it in favor of order or justice. Afterwards, it explores how the conflict influences the development of legal doctrine and how it shapes the practice of law. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393C. Indians in North American Culture.**

Thomas King's novel, *Green Grass, Running Water*, is the starting point for this course which examines how the Indian is represented in U.S. and Canadian literature, history, and popular culture. Students will read and discuss a variety of texts: literary, historical, visual (television and film). Discussion will be aided by accompanying critical/scholarly articles. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393D. Aliens, Hipsters and (In)visible Men & Women: Cold War America.**

The course focuses on the fears dreams of Cold War America as seen in popular culture and literary texts. In particular the class will examine the fear of aliens, from communists to space creatures and the psychological, cultural and ideological implications. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393E. History of Ideas III: History of Ethics I.**

This course is the first of a two course interdisciplinary sequence tracing the historical development of ethics through the study of primary works in literature, history, political thought, ethics, philosophy and law. The first course examines writings from the Ancient Greek, Roman, and Hebrew traditions, and the development of teleological, reason-based and faith-based ethics in the Christian tradition from the New Testament period to the Renaissance and Reformation. Writers studied include: Plato, Aristotle, Augustine, Aquinas, Machiavelli, and Luther. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393F. The Nature of Man: Communication & Culture.**

This course is a cultural study of the turn of the twentieth century, with a focus on a critique of advertising and popular culture messages that communicated the new culture of modernism to an America in transition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393G. The Female Self & Society: 20th Century Latin American Women Writers.**

The course presents a historical overview of women's writing in Latin America from 1900 to today, focusing on poetry, narrative fiction, essay and drama. Students will focus on women's personal and political struggles and on the similarities and differences between women's social struggles in Latin American and in the United States. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393H. The Nature of Man: Race and Ethnicity in Cross-Cultural Perspective.**

Race and Ethnicity are social phenomena that influence group relations, as well as personal identity, in many areas of the world. This course introduces students to the history of these concepts and the varied approaches that have been utilized to understand racial and ethnic phenomena. The course is rooted in anthropology but will utilize resources from other disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393I. Creating Poetry: Anglo-Saxon Innovation and Modern Tradition.**

After an introduction to Old English, students will read Old English verse in translation and learn about Old English poetics. Then students will read "new Old English poets" that were influenced by the Anglo-Saxon aesthetic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393J. Sex, Drugs & Cabaret.**

This seminar considers European life in the years around 1900. Students will examine "high" modernism's themes, including: Urban experience, nationalism, anti-semitism, and explorations of sexuality in social science, law and the arts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393K. Naturalism from Hume to the Present: The Science of Matter, Mind, Morals & God.**

The thought of David Hume (1711-1776) will be set within the controversy between Continental Rationalists and British Empiricists. Hume's epistemological program of constructing a "Newtonian" science of the mind will be examined. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393L. History of Ethics - Modern to Contemporary.**

This is the 2nd of a 2 course sequence tracing the historical development of ethics through the study of primary works in literature, history, political thought, ethics, philosophy and law. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393M. Godel, Escher, Bach: An Eternal Braid.**

The course will explore common elements among the works of Godel, Escher and Bach in their art, music and logic. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393N. Violence in American Culture.**

The study of the life, times and thought of geniuses, focusing on the origin and evolution of their ideas and works and its effect on culture and civilization. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393O. Life & Work of the Genius.**

The study of the life, times and thought of geniuses, focusing on the origin and evolution of their ideas and works and its effect on culture and civilization. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393P. Personal Story Telling: Construction of Meaning.**

Explores the psychosocial functions of personal narratives. Examine how people communicate the meaning of events by telling stories about them. Students conduct narrative analysis and learn how it applies to areas of psychology, health, and culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Q. The Epicurean Ideal: Celebrating Life's Simple Pleasures.**

Considers Epicurean philosophy and its prescription for life. Use primary texts to examine the social, moral, and political dimensions of Epicurean thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393R. From Court to Street: 18th Century France.**

This course exams the cultural "revolutions" arising in 18th century France. Using literature, paintings, architecture and music, student will explore how prevalent ways of life shared from Louis XIV's Versailles to Revolutionary Paris. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393S. Entrepreneurs, Leaders, Teams: Best Practices.**

Writing Intensive seminar examining the "life stories" of selected entrepreneurs, identifies leadership qualities that may have contributed to success, and explores principles necessary for groups to become teams and for teams to become high performing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393T. The Voices of Eros in Poetry.**

This writing-intensive seminar examines erotic reality through the most private and intense verbal art - the poem. It explores philosophy, visual arts and religion in poetry. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393V. Science & Politics of the Human Diet.**

This writing-intensive seminar on nutrition provides an exciting and personally relevant venue for learning science. Learning is based on scientific literature, dietary assessment, field trips and experimentation in a food science lab. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393W. The Rhetoric & Philosophy of Technology.**

This course explores conceptions, consequences, moral implications, cultural understanding, metaphors, rhetoric and changing perspectives on technology. Prerequisites: ENG 1310, ENG 1320, and PHIL 1305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393X. Crime Writing: Representation & Memory.**

This course uses crime writing, literature and film to examine how collective memory is shaped and events give rise to competing social and political meanings. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Y. Ethics of Care - East and West.**

This course compares contemporary western feminist ethics and ancient eastern thoughts regarding care. Each stresses personal relations, and high moral value placed on care. The course is interdisciplinary and studies gender and multicultural issues through a focus on care giving. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3393Z. Good, Bad & Ugly - Philosophies of Film.**

This course examines the good and evil as represented in film, posing ethical questions. To what extent does depiction of evil encourage bad behavior? And does the portrayal of a philosophically shallow "good" likewise encourage bad behavior? (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394A. La Onda Latina.**

Latinos are becoming the largest "minority" group and this course covers Latino writers of fiction, essays and poetry. The course focuses on the diversity of cultural, historical, political and economic impact on the U.S. Prerequisites: ENG 1310 and ENG 1320. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394B. Consciousness: Interdisciplinary Perspectives.**

This course addresses the philosophical, evolutionary, behavioral, neural and cultural nature of consciousness. Students will study the role of consciousness and the relationship to concepts of self, and to psychiatric and neurological medicine. Prerequisite: PSY 1300, preference for junior/senior Psychology majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394C. Japanese Urban Experience.**

This course introduces students to urban Japanese life and culture through history, anthropology, literature, and film. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394D. The Media, Latinos, and the 2008 Elections.**

This course examines the relationships between mass media and politics, with a special focus on Latinos. Key literature is reviewed, but the goal is to engage in original research to assess the role of media and the DNC's & GOP's communication strategies in the 2008 elections, especially on Latino voters. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394E. Dark Ages: Evolution of a Historical Construction.**

Using literature, art, and film this course examines the popular image of the European Middle Ages known as the Dark Ages. Students will investigate the concept which originated in the Renaissance, and manifested into the 21st century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394F. Cannibals, Lepers & Barebreasted Maidens: Countering Stereotypes of the South Pacific.**

Study of the history, anthropology, sociology, art, literature and music of the South Pacific will capture an informed image of the region. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3394G. Jazz: Cultural Diversity, Psychological & Political Zeitgests.**

This course is intended to help students appreciate cultural diversity and common unifying experiences leading to jazz, a uniquely American musical form. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394H. Against Religion: Nietzsche, Marx, Freud.**

This course is intended to examine the case against religion and to evaluate it critically. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394I. East Asian Tourism Today: Invention, Culture & Heritage.**

This course uses several disciplines to introduce students to the dynamics surrounding tourism in East Asia at the opening of the 21st century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394J. Disturbing the Peace: The Politics of Language & Power in Hip-Hop Culture.**

This course introduces students to the language, film, literature, fashion, identity, and politics of hip-hop culture. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Multicultural Content|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394K. Sonic Visions: Intersections of Art & Music.**

This course explores the interaction between the visual arts and music since the late 19th century. Students will see from "behind the scenes" the process of curating and presenting a major museum exhibition of contemporary art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394L. Condoms, Smoking & Veggies: Creating Health Campaigns.**

This class will provide an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. We will examine persuasive approaches to behavioral change; audience, message and channel factors in campaign development. Our work will include communication approaches, including mass media, but with emphasis on social marketing and "new media." (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394M. Rendering Nature and Phenomenon in Art.**

This course explores, through looking at both historical and contemporary work in drawing, painting, sculpture, video, photography, and installation, how nature and phenomena are and have been rendered in art. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394N. Introduction to the Humanities I.**

This team-taught, interdisciplinary course examines the dilemmas that arise when individual desires conflict with the needs of society. Students analyze exemplary, original texts from the humanities tradition from the Classical period through the early modern era using the perspectives of literature, political theory, history, and philosophy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394O. The Search for the Meaning of Life in Film.**

This course examines films concerned with challenges to the meaningfulness of human life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394P. Individuals & Society: Intro to Humanities II.**

This interdisciplinary course examines the dilemmas that arise when individual desires conflict with the needs of society. Students analyze exemplary, original texts from the humanities tradition from the Enlightenment through the present using the perspectives of literature, political theory, history, and philosophy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Q. Modern Drama: Theatre of Revolt.**

This seminar and process-oriented course examines the era of modern drama (late 19th-20th century) through text and performance. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394R. Modern Art & Life: A Curatorial Seminar.**

This interdisciplinary course examines the intersection of art and life in the careers of artists who contributed to the birth of modern art. Students will learn about modern art's history and museum operations as they help to curate a major exhibition based on works in a local collection. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3394S. Perspectives on the Coming Presidential Election.**

This course explores the U.S. presidential election from four perspectives of what we do when we elect a president through citizen participation, through the election as spectacle, through the media shaping perspectives, and through the candidates who hope to win. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394T. Social Class Collison: the Post WWII British Novel of Manners.**

Using six novels, this course explores the social landscape of Britain when once-rigid class distinctions dissolved during WWII. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394U. Shakespeare on Management.**

This course examines Shakespear's approaches to leadership and managment through the perspective of his dramatic works. In combination with lectures and class discussions, this study is accomplished through individual and collborative research and presentation projects conducted by students during the semester. (WI)

**3 Credit Hours. .03 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394V. Universal Human Rights: A Global Perspective.**

This course will examine universal human rights as an organizing framework for understanding the exceedingly complex global community in which we live today. It will examine significant social, political, philosophical, historical, legal, economic, geographic, and cultural factors that impact universal human rights. It will provide an overview of the challenges in implementing universal human rights, explore effective efforts to redress inequity, and examine opposing viewpoints. Finally, it will encourage students to engage in a critical intellectual inquiry and personal self-reflection. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394W. "Lived Reality" and the Role of International Development in Southeast Asia.**

This seminar examines the ways in which international development is implemented in Southeast Asia. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394X. Magic Realism in the Works of Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, focusing on literautre, history, politics and popular culture of Latin America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Y. The Quest for the Sacred in a Secular Age: Late-Modern Novels.**

The Protestant Reformation weakened the notion of a homogeneous, central religion, as did the theories of Charles Darwin and Sigmund Freud. Yet the sense that God was no longer a collective concept but a private belief didn't seem mainstream until the twentieth century. We will study five novels that explore this shift. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3394Z. The Black Image in Postwar America.**

This course explores the complex ways in which blackness has been figured and represented in postwar American as well as some of the strategies that have been used to respond, intervene, and subvert these frequently monolithic representations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395A. Seeds of Change: Plants and Society.**

A course which focuses on the uses of plants and the roles plants have played in shaping the history of the world. The course stresses interdisciplinary, diversity, and multiculturalism and is designed to provide an in-depth integrated overview of the biology, chemistry and culture of plants placed in historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395B. Integral Ecology.**

This course explores multiple issues associated with the development of integral ecology, an emerging metadiscipline rooted in a perception of reality that goes beyond traditional scientific rationalism to an intuitive awareness of the oneness of life, the interdependence of its multiple manifestations, and its cycles of change. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395C. Fibers to Fabric: the Interlacing of History, Science, and Technology.**

This course focuses on the role of fiber products in the development of civilization and technology. Through interdisciplinary investigations, the course seeks to provide an in-depth understanding of fiber science and place current technological, social and environmental issues surrounding textiles in historical perspective. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395D. Sustainable Urbanism: Reinventing Our Communities.**

This course examines the human and environmental impacts of urbanization and critically assesses applied techniques that are being made, or proposed, to develop cities in truly sustainable ways. Students will investigate the origins and concepts of sustainable development, as well as the application of sustainable solutions to today's urban problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395E. Families and the Workplace.**

This course focuses on the study of the interaction/interface between the demands of work and family roles, especially toward policies in the US and the effect on diverse family structures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395F. Museum Representations.**

This course explores how cultural and aesthetic values, history, and the scientific record are constructed and interpreted by the process of representation in museum exhibits. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395G. 19th Century German Lieder.**

This course explores the poetry and the music of Lieder to propose text-music relationships. This course will explore the genre—its history, primary composers, and its continuing tradition into the 20th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395H. Creating and Teaching Mathematical Lessons.**

This course provides students the opportunity to create and teach mathematical lessons for children that integrate algebra and geometry – building their own mathematical understanding using inquiry based methods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395I. Ever Since Darwin: Celebrating Darwin's 200th Birthday.**

This course explores Darwin's quest in arriving at the theory of natural selection, his reasoning and evidence, as well as flaws and fallout. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395J. The Meaning of Death.**

How does the fact that we will die affect the possibility of our living a meaningful life? In this course we will examine answers to this question provided by philosophers, psychologists, literary writers, and film-makers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395K. The World's a Stage: Dramatic Glimpses of the Human Condition.**

This seminar course examines contemporary human issues and values through the perspective of dramatic works for the stage. In combination with lectures and class discussions, this study is accomplished through research and critique projects conducted and presented by each student during the semester. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395L. Summer Study in France.**

Summer Study in France offers an intensive 35 hours a week, integrated program of oral and written French, phonetics and civilization, designed for intermediate students and supplemented with cultural activities. In addition, a week in Paris introduces students to the French architectural and artistic legacy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395M. Humanity and the Natural Environment: A Study of Interrelationships.**

An interdisciplinary introduction to the interdependence between humans and their natural environment, emphasizing linkages between human activities and their impacts on environmental resources and sustainability, including the ecosystem goods and services provided by a healthy environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395N. Media Literacy.**

This course provides frameworks for critical thinking, analyses and teaching about media. It also explores the increasingly large and diverse organizations and resources that have been developed over the last two decades pertaining to media and news literacy. Creative hands-on production projects will also be optional learning tools. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 33950. Social and Political Humor through the Art of Improvisation.**

Participants will develop improvisational performance skills as they take part in theatre games and improvisational exercises. Ensemble work will emphasize spontaneity and interaction with each other. Complimentary lectures will broaden student knowledge of important movements and personalities in the history of improvisation and satire, and individual research will allow students to explore areas of particular interest. Work in smaller groups will provide students the opportunity to use these skills, along with their research, to sharpen their own wit and humor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395P. Preserving Humanity in the Face of Conflict: the War Story Genre.**

This course provides students the opportunity to consider the human impact of several global conflicts that have occurred over the past forty years by focusing on novels, short stories, essays, and a memoir written about post-World War II conflicts in Vietnam, the Balkans, Iraq, and Afghanistan. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Q. Vishnu, Bollywood, and Masala: South Asian Literature in Context.**

This course explores the culture of South Asia via its highly provocative literature, including religious texts such as The Bhagavad Gita, as well as contemporary texts by writers such as Salman Rushdie and Manil Suri. We will contextualize our literary discussions by examining the region's history, religious history, religions, and culture. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395R. Hip-Hop Culture and Positive Youth Development.**

Hip-Hop culture is examined within the context of human development over the life course. Cultural dynamics are examined alongside the social and political history of the United States. Through the lens of Hip-Hop, students will use skills in reflection, discussion and creative expression to develop strategies for personal growth and well-being. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395S. International Horticulture.**

This course introduces students to the English culture and way of life, as well as England's historic role in horticulture, past and present. Students will study from the following four horticultural fields: Ornamental Horticulture, Landscape Design, Vegetable/Fruit Crops, Vineyards and Hops. This course includes basic instruction in English history, as well as lectures and field trips. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395T. Fast Reading for Fun: The Birth of the Mass Media in Victorian England.**

This course will explore literature published during the English Victorian period in tandem with articles, literature, illustrations, advertising, and news items published in popular Victorian periodicals. By considering periodicals and literature in context with each other, students will be able to examine a cross-section of Victorian culture, get a more intimate understanding of the development of communication and mass media in western civilization, and learn the relevance of the Victorian period to our own media moment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395U. Travel Writing.**

This seminar/lab course explores techniques of writing journalistic travel narratives for the media including (online and traditional) newspapers and blogs. Students will develop and write travel stories using diverse, interdisciplinary approaches. Students will learn information-gathering and interviewing skills, and narrative techniques pertinent to travel writing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395V. Introduction to LGBT Studies: An Interdisciplinary Approach.**

This course is an introduction to LGBT Studies, combining three academic disciplines: social, political, and historical; drama and fine arts; and English and Queer Theory. These disciplines will be integrated throughout the semester to assist student in developing a perspective of local, national, and global LGBT themes and issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395W. The Writer in the Factory: Screenwriting History and Theory.**

This course explores the history of screenwriting in American filmmaking. It is not a class that teaches screenwriting technique. Rather, this course examines how the script has been regarded within the film industry over time, taking a historical perspective on screenwriting and the role of the screenwriter as each has developed throughout film history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395X. Writing Yourself into Academia: Creating Portraiture.**

Portraiture is a cross-genre research methodology in which writers study a person, a group of people, an institution, or a concept. Students will create carefully researched portraits that integrate personal narrative, interviews, and academic research. Portraiture values students' lived experiences and has roots in anthropology, sociology, journalism, and creative nonfiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Y. Juke, Twang, and Shout: Popular Music and Race in the U.S. South.**

Amongst the genres of American popular music, styles heavily associated with the U.S. South tend to predominate, and the history of each seems to be entangled with that region's contentious racial history. This course will engage the history of musical production and performance in the South while also examining the hagiography of the South, its music, and its people. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3395Z. Media, Ethnic Minorities, and Politics.**

The course examines the relationships between mass media and politics, with a special focus on ethnic minority groups, particularly Latinos, during the current presidential campaign. Key literature is reviewed, but the goal is to engage in original research to assess the role of ethnic-targeted communication processes in the current election. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396A. Rubbish, Waste and Litter: Cultural Refuse/als.**

This course explores the field of waste studies to integrate the material reality of and historical practices regarding excrement in written and figurative texts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396B. Playwriting: A Structured Approach to Writing for the Stage.**

This course develops the basic professional techniques and skills used in writing for the theatrical stage. Students analyze scripts and perform practical exercises in story and character development, study dramatic play and structure and develop a full-length dramatic play. Weekly readings and critiques assist writers in refining their scripts. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396C. Screenwriting: A Structured Approach to Writing for the Screen.**

This course develops the basic professional techniques and skills used in writing for the screen. Students analyze contemporary scripts and perform practical exercises in story and character development, study screenplay structure and format, and develop a full-length dramatic screenplay. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396D. Mythology, Science and Creation.**

Using religious studies scholarship on myth, the course surveys creation mythologies from around the world. Native American, African, Near Eastern (including Biblical), Greco-Roman, Old European, and Asian Myths will be included. Cosmological myths will then be compared to scientific cosmology and the current model(s) of the Universe's origin. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396E. Free Speech, Free Press and the Supreme Court of the United States.**

This course focuses on U.S. Supreme Court decisions related to the First Amendment and the five rights of religion, speech, press, assembly and petition. By examining how the high court has interpreted the First Amendment, students will learn about government's sometimes wavering commitment to our nation's most cherished rights. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396F. The Art of Storytelling: From Origins to Improv.**

This seminar examines the art and culture of storytelling from ancient to contemporary times. Students read and analyze stories from oral and written traditions and develop skills in creating and applying storytelling in social, business, political and entertainment environments. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396G. Graphic Novel: Form & Practice.**

The purpose of this course is to familiarize students, from analysis to creation, with the graphic novel. Because graphic novels don't easily fit into proscribed categories, this course is based off of the assumption that graphic novels are a form/media unto themselves, necessarily in dialogue with a variety of other forms/ media. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396H. Depictions of Sexuality in Children's and Adolescent Literature & Culture.**

This course will explore contemporary issues of childhood and teen human sexuality, including depictions of gender and orientation, in fiction and nonfiction for children and adolescents. We will additionally explore pedagogical, social and political issues arising from and informing societal perceptions and enactments of sexuality. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3396I. Service Learning and the Second Language Acquisition Learner.**

This course aims to address the gap between learning a second language and the skills needed for teaching through first hand observational experience in the second language classroom. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396J. Transforming Creative Art: Literature in Performance.**

This seminar/workshop course examines the process of transforming literature into performance. Through close reading and analysis, students develop a critical understanding of the literary, sociological, and cultural attributes of a written work, and then develop approaches to transforming and presenting the work in performance-readings, dramatic productions, movies, improvisations. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396K. Hispanic Americans: Finding Their Identities and Their Voices.**

This course is an examination of critical moments in American social history that defined the Hispanic American social, political, educational, literary, and cultural experience, and how these experiences continue to impact Hispanic American identities and voices. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396L. Early American History through Biography.**

This seminar will acquaint students with major issues and events in early American history through the study of biography and autobiography. Students will study the lives of the individual, both prominent and lesser-known, from the American past, and these lives will be examined in the context of the larger historical narrative. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396M. Transforming Creative Art: Literature in Performance, Presenting Later Shakespeare.**

This seminar/workshop series examines the transformation of literature into performance using three examples from Shakespeare's later plays. Through close reading and analysis, students develop a critical understanding of literary, sociological, and cultural attributes of written works, and then develop approaches to transforming and presenting the works into dramatic performances. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396N. American History Through Memoir: From the End of Reconstruction to the Present Day.**

This seminar offers participants engagement with recent American history through the study of memoirs from a broad range of viewpoints. Seminar participants will be responsible for providing contexts for the readings from within the secondary literature, while the featured memoirs will relate recent American history "from the margins": including voices of Native peoples, African-Americans, political and cultural dissidents, and recent immigrants. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396O. The Extraordinary in the Everyday.**

In this course we will discuss and discover how artists and writers from all over the world have approached finding or being present to the Everyday. We will discuss political and social ramifications of involvement: what it means for us to reconfigure a prescribed space. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396P. Bad Taste.**

This course investigates what it means to have bad taste and in so doing students will gain an understanding of how discussions of taste are linked to the innumerable ways in which people (through their behavior or choice of aesthetic objects) place themselves/are placed into hierarchies of knowledge and power. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Q. Public Policy for Energy, the Environment, and Global Sustainability.**

This course provides an interdisciplinary introduction to U.S. policy for energy, the environment, and sustainability. Emphasis will be placed on understanding the laws, regulations, and treaties that oversee air and water pollution, solid waste, hazardous waste, energy use, natural resources, climate change, and global governance for energy, environment, and sustainability. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396R. Sustainable Design and the Built Environment.**

This course examines contemporary issues of where we live and the interdependence of our home on the environment. Sustainable principles shall be emphasized with reference to social, economic, and ecological issues of the built environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3396S. The American Song: Oppression, Protest, and Praise.**

This workshop course engages students in the cultural history and sociology of the United States from the perspectives of songs, which are studied as persuasive exemplars that subtly shape public opinion and boldly inspire public action. Students integrate their study and interests by creating effective songs and lyrics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396T. How We Decide: Making Decisions from the Inside Out.**

This interdisciplinary seminar enlightens students on the decision-making process using contemporary research from neuroscience, psychology, management, healthcare, etc. From this foundation students will examine case studies at the individual, group, and societal levels, and they will evaluate a cross section of decision aids such as heuristics, ethics, and computers. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396U. From White Slavery to Sex Trafficking.**

This course seeks to historicize the global migration of sex workers and the modern-day anti-sex trafficking movement by tracing the origins of the anti-white slavery movement in the late nineteenth century to the debates about sex work and sex trafficking of the twenty-first century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396V. Witches, Whores, Murderers & Thieves: Capital Crime in Early America.**

This course is an in-depth investigation into the social and legal culture of Early America through the study of microhistories. In this course, we will concentrate on a series of capital crimes, ranging from murder to witchcraft. The period will be the 17th century through the Age of Jackson. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396W. The Dragon and the Spaceship: Fantasy, Utopia, and the Fiction of Estrangement.**

This is a course on world literature that looks specifically at otherworldly literature, including works frequently categorized as fantasy, utopia or dystopia, and science fiction. We will look at mostly modern texts written after 1800, with an emphasis on twentieth-century writers. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396X. Storytelling in Video Games.**

This course will examine how stories are crafted to fit the new interactive media of video games, how these new stories resemble traditional stories from the literary canon, and how these unorthodox plots, characters, and games are used to create a new form of literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Y. Urban Horticulture.**

This course introduces the role urban landscape and the regional environment play in the quality of life. Students will consider commercial products, services of Horticulture, and people-plant interactions related to art, science, and practice. Students will learn the importance that land use decisions have on the sustainability of the environment. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3396Z. Eating Meat in America: Historical and Philosophical Perspectives.**

This course has two aims: first, to introduce students to the changing nature of, and views about, the production and consumption of animals in America from the 18th century to the present; second, to introduce students to the philosophical issues that eating animals raises. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397A. Revolution, Malaise, Reaction, and Sleaze: America in the 1970s..**

This course revisits the reputation of a decade. Many recent commentators have claimed the Seventies as a pivotal historical moment. We will engage questions regarding why this is so, and how an understanding of the 1970s helps us to orient ourselves in the contemporary political, economic, and cultural milieu. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397B. Plotting the American Experience.**

This course is an in-depth critical study of plot in major contemporary American novels and stories (1985-present), both as a driving force in the work(s) and as a reflection of the American moment in which each was written. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397C. Geography of Africa.**

This course is a systematic approach to the multifaceted aspects of the physical and human geography of the African continent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397D. Urban Immersion: Seeing Cities through Cinema.**

This course explores themes in urban studies using full-length films and selected readings. Students will study the geo-political, economic, and socio-cultural dimensions of cities. Using cinema as a pedagogical tool immerses students in the urban experience more than traditional instructional methods, resulting in a richer understanding of the subject. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397E. Literary Barcelona.**

With Franco's 1939 victory, the Catalan language was banned from public use. This course will explore the undeservedly disadvantaged work of modern Catalan writers, and investigate texts, such as George Orwell's *Homage to Catalonia*, which stress Catalan social realities and affirm Barcelona as a place of literary imagination and vitality. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397F. America vs. the World: The History of a Love-Hate Relationship.**

This course explores the complex relationship between America and "the rest of the world" through an examination of the twin discourses of "American Exceptionalism" and "Anti-Americanism" from the time of European contact with the New World up through the post 9/11 era. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397G. Memoirs from Life Off the Neurotypical Map.**

To understand the growing neurologically disabled, disordered, and mentally ill population and our perceptions of them and ourselves, we will analyze memoirs and aesthetic works by this true fringe group and consider what being fundamentally different means, and how labels affect people in and out of the neurotypical majority. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397H. International Culture Course: the cultural characteristics and diversity of people outside the US.**

This study abroad course will cultivate student knowledge of the similarities and differences among international cultures, values, traditions, beliefs, and customs. Discussions and written assignments will provide opportunities to understand the cultural achievements and human conditions of a specific target country. Field trips will provide experience of cultural components. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397I. A Cultural History of Mexico in the 20th Century.**

This seminar will investigate the landscape of state and culture in the Republic of Mexico in the 20th Century and explore the creators, as well as the political supporters and detractors, of popular culture in terms of the fine arts, plastic arts, dance and theatre arts, poetry, music, literature, and photography. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397J. Extraordinary Leadership: Ownership and Influence.**

This course is designed to elevate the performance of leaders. Students are challenged to develop their potential in seminar-style sessions covering leadership definitions, theory, frameworks, and the global application of skills. Students explore their behaviors, motivations, values, influences, and character in an effort to increase self-awareness and to think critically. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397K. The Search for Right and Wrong in Politics.**

Using classic texts and works from literature and film, and current event videos, this course provides students with a foundation for understanding the intersection of politics and ethics and for achieving an understanding of how politics works. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397L. Economic Anthropology.**

This course reviews central issues in economic anthropology, using both case studies and theoretical writings. Students will analyze production, exchange, distribution, consumption, property, economic surplus, inheritance, and types of economic structure. Materials will cover hunter-gatherer societies, simple agricultural societies, pre-capitalist complex state societies, and issues of development in non-industrialized countries. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397M. The Death Plot: Fiction, Memoirs, Poems.**

A story or poem is finite. Life is too. When we arrive at its end, we hope to understand its meaning, or, as Peter Brooks said, "to connect ends and beginnings and make of the middle a highly charged field of force." Stories and poems about death provide this opportunity. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397N. Advanced Writing for Video Games.**

This course will teach students to write for video games based on techniques learned from observation and study. The course focuses on creativity and flexibility, two traits essential to game writing, and students will develop a marketable design document for an original video game working in design teams. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397O. Walking: An Active and Interdisciplinary Investigation.**

What has the act of walking meant historically and what does it mean today? What has been written about the experience of walking? What insights can walking with reflection bring? Students will explore these questions through readings in literature, history, and philosophy, and through art and the act of walking. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397P. Anti-Intellectualism in American Culture and Politics.**

Hostility to science, experts, and "book learning" is a common impulse that shapes contemporary American culture and politics. In this course, we will explore how anti-intellectualism promotes notions about media bias, encourages belief in implausible conspiracies, and spurs hyperpolarized politics, among other topics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Q. Women and Texas Music.**

This honors course examines the lives and contributions of Texas women composers, performers, historians, and patrons and their roles in the promotion and advancement of the state's music. Conducted in both lecture and class discussion formats, this course will address topic-related issues of class, race, and identity formation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397R. Demonology, Possession, and Exorcism.**

People have believed in demons throughout Western civilization and continue to, despite advances in science and medicine. This course explores the social significance of demonology. What are the historical, psychological, political, and economic consequences of believing in demons? To explore such questions, students will examine demonology across cultures and employ a variety of disciplinary approaches. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397S. Human Language: its evolution, mental representation, and learning.**

Readings and discussions will concern human language's evolution, its representation in the mind/brain, and its learning by native and non-native speakers. Topics will include: evidence for language in other species including homo neanderthalensis; whether human language is innately specified; and similarities and differences between first and second language acquisition. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397T. Psychology in Film.**

In this course, we will identify and discuss psychological concepts in popular films from a variety of genres. We will address issues of conformity, consciousness, motivation, addiction and psychological disorders. The approach to the material will be interdisciplinary in nature with a special focus on modern behavioral neuroscience

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397U. Quests for the Holy Grail.**

The course surveys the Celtic and Christian sources of grail legends, the major medieval grail quests, and post-medieval appropriation of the grail quest. Primary sources shall be examined through the methods of literary criticism, anthropology, and religious studies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397V. Phonetics.**

This course is an introductory overview of human speech sounds. It describes speech anatomy and pays particular attention to the description of the acoustic and articulatory properties of speech as it occurs in real time. Students will study articulatory, acoustic, and auditory phonetics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397W. Alienation and Authenticity: In Search of the Modern Self.**

The modern self must struggle constantly to persevere or create authenticity against the forces of alienation. This course will investigate the origins and varieties of alienation and examine how some of the Western tradition's greatest philosophers, artists, and poets have dissected the "modern condition" and dreamed of rising above it. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397X. Nueva York: Hispanic and Latino Literature and Art in New York.**

This course offers an inter-American multidisciplinary approach to Hispanic and Latino writers and artists in New York City from the late nineteenth century to the present. Topics include exile, migration, identity, bilingualism, and civil rights through a variety of literary genres, artistic forms, cultural organizations, and academic disciplines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Y. Deception, Risk, and Science Ethics of Research with Human Subjects.**

This course introduces the key ethical concerns related to human subject research. Students will analyze research projects in which scholars place individuals at risk in the interest of reaping some benefit to those individuals and/or society. A case-study approach will actively engage students in ethical decision-making. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3397Z. Makerspaces: Intersections of Art and Everything.**

This course will examine multidisciplinary concepts applied within makerspaces and complete hands-on design projects using beginner-level do-it-yourself techniques, including "upcycling" recyclable materials, 2D subtractive manufacturing (i.e. CNC machines that trim acrylic, cardboard, vinyl), 3D additive manufacturing (i.e. 3D modeling, printing), textiles (i.e. embroidery, sewing), and electrical circuits (i.e. micro-controllers, sensors). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398A. Italy and Arts of the Islamic World.**

This course will challenge the traditional account of the development of Italian Renaissance art by exploring connections to Islamic culture of the surrounding Mediterranean world. Students will be introduced to visual analysis and interdisciplinary research techniques by which art and architecture can be used as documents in interpreting history. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398B. Modern Tibet: Politics, Identity and Representation.**

This course examines the political, religious, economic, environmental and cultural situation of modern Tibet, by reading works by Tibetan, Chinese and Western scholars, and by analyzing propaganda and stereotypes. Students will be exposed to modern Tibetan literature, art, pop music and film, as well first-hand accounts by class guests. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398C. Theatre and War.**

In "What It Is Like To Go To War", Karl Marlantes calls for ritual to aid young soldiers returning home. In this course students will analyze how classical and modern theatre can provide such a ritual, and be used as a tool to understand society's role in war. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398D. The Politics of Language in Schools and Society.**

Using a critical linguistic perspective, this course examines the sociopolitical aspects of language in local, national, and global contexts. Students learn about language ideologies and gain a profound understanding for how languages and language practices are intricately tied to the racial and economic power relations embedded in schools and society. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398E. CIVIL LIBERTIES AM.**

This course explores major civil liberties themes in depth, both historical and contemporary, such as religious free exercise, free speech and press, criminal procedure, capital punishment, right to privacy, equal protection (race and gender), due process, political participation, and disabilities rights. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398F. Anthropology of Peace and Violence.**

The class explores anthropological perspectives on peace and violence. It focuses on understanding violent practices within both traditional and current day societies including everyday violence and warfare. It explores the contributions of social structure, gender, religion, race, and ethnicity to violence. It examines efforts to build peace and reconciliation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3398G. Psychology and Law: Protecting the Vulnerable.**

The course examines clinical, legal and psychosocial conditions of adults who, due to mental illness, developmental impairments, brain injuries or aging, are declared "incapacitated" and have court-appointed guardians. Students will serve as probate court representatives, (i.e., Court Visitors) who inspect living conditions/services for individuals under court-ordered guardianships (service learning component)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter



**HON 3398H. Chinese Politics and Society through Literature and Film.**

This course offers an overview of the main political and social developments in contemporary China through the cultural production of Chinese writers and filmmakers who, following the tradition of the Chinese literati of imperial times, became main characters in the modern Chinese political scene

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480A. Relativity and Quantum Mechanics for Non-Science Majors.**

Principles of quantum mechanics and relativity will be discussed and analyzed including applications to theoretical problems and practical applications. The lab portion will teach basic electronics skills and allow students to perform classic experiments of modern physics. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480B. Building A Greener Future: One Home at a Time.**

This course will focus on the science and engineering principles involved in building and maintaining a house. Students will investigate how choices of materials and design influence cost, sustainability, and energy efficiency of housing. Laboratory experiences will elucidate these concepts. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 3480C. Teaching Physical Science to Children.**

This studio-styled physics course is ideal for preservice K-8 teachers. Course content includes both physics concepts and research findings on physics teaching and learning. We will focus on developing deep understanding of fundamental concepts in physical science and how these concepts relate to making sense of our everyday experience. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4390A. Senior Seminar: Thesis Development.**

This course will assist Honors students by exposing them to a systematic study of contemporary research methods appropriate for research on their theses. Prospective thesis supervisors and library research facilitators will insure that participating students understand both the mechanics and expectations of preparing an Honors Thesis. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4390B. Honors Thesis.**

A course designed to allow students in the Honors Program to pursue an independent project of research, study or creative achievement, culminating in a paper, laboratory problem, field research problem or creative effort of some size and scope. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**HON 4391. Honors Independent Study.**

Individual study under direct supervision of a professor for Honors credit. May involve field trips. This course may be repeated for credit but a student may not exceed six hours of credit in Honors Independent Study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Honors|Topics|Writing Intensive

**Grade Mode:** Standard Letter

## Industrial Engineering (IE)

**IE 3310. Project Management for Engineers.**

Basic principles governing the efficient and effective management of engineering projects. Topics include project planning, scheduling, and cost estimation procedures. Prerequisite: ENGR 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**IE 3320. Engineering Statistics.**

Fundamentals of probability and statistical inference for engineering applications, probability distributions, parameter estimation, hypothesis testing, and analysis of variance. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**IE 3330. Quality Engineering.**

Quality assurance systems, quality costs, statistical quality control, and approaches for engineering quality into products and processes. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 3340. Operations Research.**

This course teaches models in operations research including linear programs, the simplex method, duality theory, sensitivity analysis, integer programs, and network flows. The emphasis is in learning to recognize, formulate, solve, and analyze practical industrial problems. The course also teaches commercial mathematical programming languages.

Prerequisites: CS 1428, MATH 3377, ENGR 3315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 3360. Methods Engineering and Ergonomics.**

This course is a survey of methods for assessing and improving performance of individuals and groups in organizations. Techniques include various basic industrial engineering tools, work analysis, data acquisition and application, performance evaluation and appraisal, and work measurement procedures. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4310. Statistical Design of Experiments.**

Statistically designed experiments for engineering applications. Topics include analysis of variance, randomized complete designs, factorial designs, empirical models generated from controlled experiments, and response surfaces. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**IE 4320. Integrated Production Systems.**

Basic concepts in the design and control of integrated production systems to include forecasting, inventory models, material requirements planning, scheduling, planning, and shop floor control. Coverage will include both traditional and kanban systems. Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4330. Reliability Engineering.**

Reliability of components and systems, reliability models, life testing, failure analysis, and maintainability. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4340. Optimization Techniques.**

Mathematical modeling and computational methods for linear, integer, and nonlinear programming problems. Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4350. Supply-Chain Engineering.**

The analysis of supply chain problems to include facility location, customer assignment, vehicle routing, inventory management, and the role of information and decision support systems in supply chains.

Prerequisite: IE 3340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4355. Facilities Planning.**

Planning, design, and analysis of facilities. Emphasizes the principles and methods used for solving plant layout, facility location, material handling, automation, computer integration, and warehouse operations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4360. Human Factors Design.**

This course will emphasize the applications of human factors engineering to systems design. Prerequisites: IE 3360. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**IE 4370. Probabilistic Operations Research.**

Probabilistic models in operations research to include queuing theory, simulation, and Markov chains. Emphasis will be placed on modeling applications to solve problems in industry and computing.

Prerequisite(s): IE 3320 and CS 1428

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4380. Industrial Safety.**

This course is a survey of occupational safety and hazards control. Topics include the history of occupational safety; hazard sources related to humans, environment, and machines; and engineering management of hazards

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**IE 4390. Industrial Engineering Capstone Design.**

Students form teams and apply industrial engineering principles to develop and implement solutions to industrial problems and/or systems engineering issues. Prerequisites: IE 3310, IE 3330; and at least two of: IE 3360, IE 4310, IE 4310, IE 4355, IE 4370 and MFGE 4396. Corequisites: IE 4320 and IE 4350

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 4399A. Lean Six Sigma Methodologies.**

This course covers the principles and methodologies of Six Sigma and Lean Manufacturing. Emphasis is on the tools and techniques used in Lean Six Sigma projects, including statistical process control, experimental design, project management and lean tools. Students will develop and complete a Lean Six Sigma project in industry.

Prerequisite(s): IE 3310, ID 3330, and ID 4310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399D. Modern Heuristic Optimization Techniques.**

Heuristic methods that search beyond local optima such as simulated annealing, tabu search, genetic algorithms, ant-colony systems, and particle swarm. Papers from the literature, problem-specific heuristics, evaluation methods and serial/parallel implementations are discussed.

This course is an advanced undergraduate course for students in engineering and related fields. Prerequisites: IE 3340, CS 1428

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399E. Introduction to Systems Engineering.**

This course includes introductory topics in systems engineering and the systems-thinking process. The focus of the course is on the development of complex systems. Important topics include system understanding, modeling and design, the system development process, needs analysis, concept exploration and definition, design, integration and evaluation, and systems engineering management. Prerequisite: IE 3320

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 4399F. Introduction to Data-Intensive Analysis and Simulation.**

This course covers the foundational topics in data science and consists of three parts: The first part focuses on data extraction from databases, sensors and social media. The second part reviews data-intensive analysis through statistics and machine learning tools. The third part introduces the concept of farming data using design of experiments methodologies and computer simulation. Prerequisites: IE 3340 and IE 4310

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**IE 5310. Advanced Statistical Design of Experiments for Engineers.**

This course examines the design and analysis of controlled experiments, demonstrating engineering applications of design of experiments (DOE) in the manufacturing and service industries. Topics include full and fractional factorial designs, response surface methodology, and Taguchi methods. In a semester-long project, students apply DOE to improve a real manufacturing process. Prerequisite: ENGR 5310 or instructor's approval. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5320. Modeling and Analysis of Manufacturing Systems.**

This course covers the methods for modeling and analyzing manufacturing systems. Critical manufacturing issues that are addressed by these models include sustainable production systems, material handling systems, scheduling, and supply chains. Prerequisites: IE 3320, IE 3340, and MFGE 4396; or instructor's approval. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5330. Advanced Quality Control and Reliability Engineering.**

This course provides in-depth knowledge in reliability modeling and maintenance optimization for components and systems. The course also covers advanced quality control techniques including multivariate process control. Methodologies are applied to solve practical problems arising from various industry domains. Prerequisite: ENGR 5310 or approval of instructor. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5340. Applied Deterministic Operations Research for Engineers.**

This course introduces students to modeling of linear, non-linear, and integer problems applied to engineering design, manufacturing, service, supply chain, healthcare and electrical systems. Mathematical programming software is emphasized in class exercises, homework, and project. Techniques including revised simplex method, duality theory, sensitivity analysis, and networks are also covered. Prerequisites: CS 1428 and MATH 3377 or approval of instructor. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5343. Non-Linear Optimization Techniques for Engineers.**

This course covers engineering applications of mathematical modeling and computational methods for nonlinear programming problems. The primary goal of this course is to present techniques and strategies essential to optimize non-linear models. Prerequisite: IE 3340 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5345. Advanced Optimization.**

This course covers advanced concepts in linear and integer programming. Solution techniques for stochastic and dynamic programming and formulation and solution of decision models in manufacturing, service, supply chain, healthcare and electrical systems are presented. Prerequisite: IE 5340. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5347. Modern Heuristic Optimization.**

This course covers heuristic methods that search beyond local optima such as simulated annealing, tabu search, genetic algorithms, ant-colony systems and particle swarm. Papers from the literature, problem-specific heuristics, evaluation methods, and implementations are discussed. Prerequisite: IE 3340 or equivalent, or approval of instructor. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5397. System Thinking and Analysis.**

This course is an introduction to systems engineering and the systems thinking process, providing important considerations related to the engineering of large scale systems. These considerations include system understanding, modeling and design, the system development process, needs analysis, concept exploration and definition, design, integration and evaluation, and systems engineering management. Prerequisite: ENGR 5310 or approval of instructor. Restricted to students enrolled in the MS Engineering program  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**IE 5398A. Healthcare Systems Engineering.**

This course provides an introduction into healthcare delivery with particular attention to the application of systems engineering techniques. Topics include the organization of healthcare systems, characteristics of US healthcare, decision-making in the healthcare environment, health informatics, and performance measurement tools. Student project involves integration and application of systems engineering methodologies. Restricted to students enrolled in the MS Engineering program. Prerequisite: IE 5340 or instructor's approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**IE 5398B. Response Surface Methodologies.**

This course continues the examination of the design and analysis of controlled experiments, demonstrating how design of experiments (DOE) and response surface methodologies (RSM) are used in product optimization and process improvement. Topics include factorial and fractional factorial designs, steepest ascent, fitting response surfaces, variance-optimal design, and mixture experiments. Restricted to students enrolled in MS Engineering, MS Computer Science, MS Mathematics, MS Physics or MS Technology Management. Prerequisite: IE 5310 or Instructor's approval  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**IE 5398C. Data-Intensive Analysis and Simulation for Engineers.**

This course covers foundational topics in data science, including data-intensive analysis and simulation. Specific topics include data science, data extracting and preprocessing, data visualization, and design of simulation experiments. Prerequisite: IE 5310 or Instructor's Approval  
**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Interdisciplinary Studies (IDS)

**IDS 5191. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5198. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5291. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5298. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5391. Seminar in Interdisciplinary Studies.**

This course offers an in-depth study of two or more topics or emerging issues examined from an interdisciplinary perspective. Course may be repeated with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5398. Independent Interdisciplinary Research.**

This course involves individual work with specific guidance from graduate faculty. Work may include participation in research, professional practice, and/or critical review of the related literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IDS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in IDS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**IDS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Interior Design (ID)

**ID 1320. Design Graphics I.**

This course provides specialized training in manual graphic communication required in the interior design profession. It includes architectural drafting, illustrative sketching, design diagramming and schematics, and basics of orthographic and perspective drawing with emphasis in both technical and aesthetic expression. Prerequisite:

Interior Design majors only or consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 1321. Introduction to Design.**

Elements and principles of design as applied to the individual and his/her environment

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**ID 2321. History of Interiors.**

Survey of historical styles of furnishings, architecture, and interiors from the Egyptian period to the Industrial Revolution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 2322. Basic Interior Design.**

This course is an introductory lecture course for Interior Design majors, analyzing the elements and principles of design as applied to interior environments. The fundamentals of professional requirements, human factors, space planning, properties and applications of interior materials and systems, and components of style will be emphasized. Prerequisites: ID 1320, ID 1321, and ARTF 1302; all with at least a grade of C

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 2323. Design Development.**

This course is an introduction to the process of design development and planning of interior space with an emphasis on graphic visualization as a creative process and design tool. Prerequisite: ID 2322. Pre or Corequisite: ID 2321 and ARTC 2305; all prerequisites must be completed with a grade of "C" or better

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 2325. Materials and Sources.**

This course is an in-depth study of materials and finishes specified for residential and commercial interiors. Material properties, fabrication, installation methods, applications, sustainability, maintenance requirements and sourcing are addressed. Prerequisites: ID 2322 and ID 2329 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 2329. Housing and the Environment.**

Introduction to environmental factors related to human habitation. Investigates housing from global, ecological, social, physical, and spatial perspectives. Includes principles of sustainable resources, energy management, structural and mechanical systems, and interior materials and finishes. For Interior Design majors only or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3220. Design Graphics II.**

In this course students are exposed to various techniques of computer integration in the design environment with special emphasis on augmentation of the design process and presentation methodologies using digital media. Prerequisite: ID 2323 with a C or higher

**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3321. Contemporary Interiors and Architecture.**

A survey of contemporary styles of furnishings, architecture, and interiors from the 19th century to the present. Prerequisite: ID 2321 with grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ID 3322. Studio I: Residential Interior Design.**

This course is the beginning studio experience which introduces students to various dimensions, purposes, and characters relative to the small and large residential spaces. Prerequisites: ID 2321, ID 2322, ID 2323, ID 2329 and ARTC 2305. Corequisite: ID 3325 or ID 3326. Prerequisite or co-requisite: ID 2325; all with at least a grade of C

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3323. Studio II: Commercial Interior Design.**

This course focuses on the analysis, planning, design and furnishing of small to moderate commercial and other non-residential spaces.

Topics include design programming, the design development process, simple contract document preparation and visual and verbal presentation methods. Prerequisites: ID 2325, ID 3322 and CSM 2313. Corequisites: ID 3220; ID 3325 or ID 3326; CSM 4313. All with at least a grade of C

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3324. Professional Practices.**

A study of the business principles, ethics, and procedures for the interior designer. Prerequisite or co-requisite: ID 3322. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**ID 3325. Interior Lighting Design.**

The study of natural and manufactured light sources relative to the interior environment. Emphasis is on light science and technology and the effects on health, behavior, color and form. Includes issues of aesthetics, energy conservation, codes, evaluation, and specifications.

Prerequisites: ID 2322, ID 2323, and ID 2329 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3326. Comprehensive Interior Design.**

Advanced study of materials, systems, codes and other factors relating to public health, safety, and welfare in interior environments. Lecture and application of resources, materials and design technologies.

Addresses specifying, scheduling, budgeting, and resource conservation.

Prerequisites: ID 2322, 2323, 2329 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 3329. Housing, Interiors, and Furnishings.**

An application of the basic design principles in planning, designing, and furnishing interiors for contemporary living to reflect function, economy, beauty, and individuality for varying income levels. For non-Interior Design majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**ID 4101. Special Problems in Interior Design.**

A study of selected areas of Interior Design

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**ID 4120. Portfolio Design.**

Portfolio preparation and production for seeking employment with design firms. Includes instruction on graphic and publication design, business structures and portfolio strategies. For graduating interior design majors. Prerequisites: ID 3220 and ID 4323 with grades of "C" or higher  
**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4220. Portfolio Development.**

Focuses on portfolio development in preparation for the workplace. Addresses principles of visual and verbal communication, portfolio content and presentation techniques. Requires upgrading and archiving of studio projects, and investigating alternative presentation methods. Prerequisite: ID 4323  
**2 Credit Hours. 0 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4301. Internship in Interior Design.**

Internship experience in the Interior Design profession. Must meet college, department, and program requirements. (Capstone Course) Prerequisites: ID 3321, ID 3323, ID 3324, ID 3325, and ID 3326. (WI)  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**ID 4302A. Historic Preservation.**

Introduction to the field of historic preservation, including history, theory, planning, advocacy, law, conservation, and adaptive use, emphasizing the Secretary of the Interior's Standards for Rehabilitation. Students combine design and technical knowledge to approach historical design problems in creative, sensitive, and economical ways. Prerequisites: ID 2321, ID 3321, and ID 3322  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302B. Digital Interior Design.**

Exploration of computer technology resources, including CADD and three dimensional modeling programs, for the solution of interior design problems. Emphasis on the integration of technology as part of the design process as well as the production of presentation graphics and drawings. Prerequisites: ID 3322, TECH 2313 or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302C. Lighting Research and Applications.**

An in-depth study of light and color and its impact on people's behavior in interior environments  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302D. Manual Design Graphics.**

Introduces illustrative sketching, three-dimensional graphics and rendering techniques of interiors. Pre-requisites: ARTF 1302, ID 1320, and ID 1321  
**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302E. Interior Design – Critique.**

Qualitative assessment of the built environment; specifically Interior Design. Basic research methodologies will be introduced. Existing critical design analysis will be studied to develop a design-analysis rubric. Site visits to conduct design analysis and written critique of a selected regional project are required. Prerequisites: ID 2323 or consent of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302F. Color Theory and Design Applications.**

An introduction to color theory and principles with a fundamental understanding of the psychological and physiological effects color has on human perception. Characteristics of major hues which influence design and behavior and how to use, design, and apply color in the creative process will be studied  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4302G. Color Theory & Design Applications.**

An introduction to color theory and principles with a fundamental understanding of the psychological and physiological effects color has on human perception. Characteristics of major hues which influence design and behavior and how to use, design, and apply color in the creative process will be studied  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**ID 4323. Studio III: Research and Advanced Commercial Interior Design.**

This course expands student understanding and application of design research methods including evidence-based design in the commercial interior environment. Topics include advanced design research methods, programming and large-scale space planning, finish selection/specifying, furnishings design and detailing, and presentation strategies through creative problem solving and contract document preparation. Open to ID Majors only. Prerequisites: ID 3321, ID 3323, ID 3325, ID 3326, and ID 2325; CSM 4313; all prerequisites with at least a C grade  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4324. Studio IV: Contemporary Design Issues.**

This course requires students to conduct specialized research in interior design to include design issues such as barrier free environments, medical facilities, historic preservation/adaptive re-use, international interiors, energy issues, sustainable design and design for special needs. Prerequisites: ID 2325, ID 3321, ID 3323, ID 3325, ID 3326, and ID 4323; CSM 4313; all prerequisites with at least a C grade  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**ID 4340. Interior Design in International Markets.**

Study of Interior Design topics in international settings. Emphasis will be placed on market differences and cultural awareness, and the implications within Interior Design. Repeatable for credit with different emphasis. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content  
**Grade Mode:** Standard Letter



**ID 4391. Independent Study in Interior Design.**

Independent reading and/or research on a specific topic related to student's primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)  
**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## International Studies (IS)

**IS 4380. International Studies Seminar.**

A senior-level seminar that explores international topics through reading, writing, research and group discussion. Students will be expected to produce a significant research paper. This course is required for all International Studies majors and should be taken in the senior year of undergraduate study. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**IS 4387. International Studies Internship.**

A semester-long work and study experience in a local, national, or foreign setting. Internships must be approved by the director of the Center for International Studies. May be repeated for credit

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IS 4687. International Studies Internship.**

A semester long work and study experience in a local, national, or foreign setting. Internships must be approved by the director of the Center for International Studies. Open to International Studies majors and minors with 60 or more undergraduate hours and a minimum Texas State GPA of 3.00. Repeatable once for credit

**6 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**IS 5387. International Studies Internship.**

A work/research experience in a government agency or company related to the students' career interests. The internship will consist of a minimum of 150 hours in the workplace and will require a research paper. This course may be repeated once for additional internship credit. Departmental approval required Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Credit/No Credit

## Italian (ITAL)

**ITAL 1410. Beginning Italian I.**

Introduction to listening, speaking, reading, and writing skills within an Italian cultural framework. Students who take ITAL 1410 toward degree requirements must also complete ITAL 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 1411

**ITAL 1420. Beginning Italian II.**

Continued practice in listening, speaking, reading, and writing skills within an Italian cultural framework. Students who take ITAL 1410 toward degree requirements must also complete ITAL 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 1412

**ITAL 2310. Intermediate Italian I.**

Continued development and review of all language skills within an Italian cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 2311

**ITAL 2320. Intermediate Italian II.**

More advanced practice in all language skills with greater emphasis on reading within an Italian cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** ITAL 2312

**ITAL 3308. Advanced Grammar and Composition.**

This course is designed to improve writing skills in Italian through the reading and writing of Italian texts. Focus on writing skills and the reading of selected works from Italian literature. Repeatable once with different content

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Japanese (JAPA)

**JAPA 1410. Beginning Japanese I.**

Introduction to listening, speaking, reading, and writing skills within a Japanese cultural framework. Students who take JAPA 1410 toward degree requirements must also complete JAPA 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 1411

**JAPA 1420. Beginning Japanese II.**

Continued practice in listening, speaking, reading, and writing skills within a Japanese cultural framework. Students who take JAPA 1410 toward degree requirements must also complete JAPA 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 1412

**JAPA 2310. Intermediate Japanese I.**

Continued development and review of all language skills in a Japanese cultural framework. Prerequisite: JAPA 1410 and JAPA 1420 or consent of instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 2311

**JAPA 2320. Intermediate Japanese II.**

Advanced practice in all language skills in a Japanese cultural framework. Prerequisite: JAPA 2310 or consent of instructor. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** JAPN 2312

**JAPA 3304. Advanced Conversation and Grammar.**

A course designed to strengthen oral and written command of the language. Collateral readings and reports in Japanese. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

**JAPA 3307. Advanced Japanese Writing and Grammar.**

A writing intensive course designed to strengthen students' knowledge of the structure of Japanese and written command of the language. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**JAPA 3308. Advanced Japanese for Business.**

An advanced course designed to develop the skills needed to succeed in the complex business world of Japan. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

## Latin (LAT)

**LAT 1410. Beginning Latin I.**

Introduction to reading and writing skills in Latin with a Latin cultural framework. Students who take LAT 1410 toward degree requirements must also complete LAT 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**LAT 1420. Beginning Latin II.**

Continued practice in reading and writing skills in Latin within a Latin cultural framework. Students who take LAT 1410 toward degree requirements must also complete LAT 1420

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**LAT 2310. Intermediate Latin.**

Introduction to complex grammatical structures and syntax of Latin. Focus on the application of the rules of grammar and syntax to the translation of original classical texts. Some attention given to the diction and written styles of individual authors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LAT 2320. Intermediate Latin.**

Continued acquisition of complex grammatical structures and syntax. Introduction to reading Latin poetry. Some attention given to meter and scansion as needed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Linguistics (LING)

**LING 4307. Foreign Language Acquisition.**

An introduction to the nature of language development and to the theories that describe foreign language acquisition and development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LING 4390. Independent Study in Applied Linguistics and Language Learning.**

This course is generally open only to students with special needs. Students select a topic in line with their special interests and requirements. May be repeated once with different topic for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**LING 5311. Applied Linguistics.**

Introduction to language theories and their implications for second-language teaching; comparison of native and target languages, and applications of linguistic principles to teaching methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LING 5313. Language Methods, Media and Testing.**

Training and practice in writing performance objectives and instructional sequences; use and demonstrations of modern media and techniques in teaching and testing language skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LING 5315. Psycholinguistics.**

Studies and comparisons of first and second language acquisition; aspects of bilingualism; interrelationship of language and culture; and their implications for the language learner

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Long Term Care Administration (LTCA)

**LTCA 5302. Elder Abuse and Mistreatment.**

This course provides an introductory overview of key theories, concepts/principles, issues, practices and challenges in elder abuse and mistreatment (EA/M). Course content includes: definitions and theories, incidence and prevalence, risk/protective factors, assessment, prevention, intervention, factors affecting screening/reporting, and the impact of EA/M on victims, caregivers, family and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5305. Environmental Design for Dementia.**

The potential of the physical environment to play an active role in supporting independence, stimulation, and life quality for individuals with dementia will be explored in this course. Emphasis will be placed on principles behind environmental design and the importance of utilizing the physical environment as a therapeutic tool

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5322. Environmental Management in Long Term Care.**

Students will compare performance analyses of long-term care facilities with a focus on organizational culture, and internal and external customer satisfaction. Plans of managerial action to maximize customer satisfaction will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5323. Governance Management in Long Term Care.**

Focuses on regulations for the operation of long term care facilities as promulgated by state and federal governments. Reviews the minimum requirements for licensure and the standards for Medicaid certification in Texas. Also examines specific activities and functions regarding accountability and enforcement procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5324. Personnel Management in Long Term Care.**

An examination of management issues in long-term care primarily in the critical areas of human resources, public relations, and marketing. Examples include staff recruitment and retention programs, training needs analysis, and marketing plan formulation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5325. Resident Care Management in Long Term Care.**

Administratively oriented content related to nursing care, quality indicator, and geriatric pharmacology utilized in long term care facilities. The course content reflects the relative legislative requirements mandated for nursing homes and other long-term care facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5335. Financial Management in Long Term Care.**

Students will examine the fiscal performance of selected facilities utilizing data from annual Medicaid cost reports with a focus on revenue enhancement and census development. Students will contrast various systems for determination of reimbursement and use reimbursement issues in a strategic planning sense

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**LTCA 5681. Internship in Long Term Care.**

An internship in which the student works directly with a licensed nursing facility administrator in a licensed long-term care facility. Students will be exposed to all aspects of facility operation and management. Graded on a credit (CR), no credit (F) basis

**6 Credit Hours. 0 Lecture Contact Hours. 24 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 3303. Management of Organizations.**

A study of management functions in modern organizations, the internal and external environmental factors affecting organizational efficiency, and the application of quantitative and behavioral science to management study

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 3353. Business Communication.**

This course provides an introduction to the uses of communication in business and focuses on communication models, general semantics, effective writing style, selection and organization of content and medium(s), effective oral communication, employment communication, and causes of miscommunication. Students will not receive credit for both MGT 3353 and MGT 3453. Prerequisites: ENG 1310, ENG 1320; and COMM 1310 or COMM 2338. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 3360. Studies in Entrepreneurship.**

Students gain personal insights into entrepreneurship as entrepreneurs describe their contributions, reveal the sources of ideas, and discover ways of growth and success. Includes starting and managing businesses as well as ownership forms, sources of funds, location analysis, facility requirements, management, marketing, and feasibility plans

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 3361. Small Business Operations and Financials.**

This course is a study of funding and financial concepts necessary to effectively operate a successful small business. Students will use software programs to maintain working capital and a complete set of books related to running businesses. Prerequisite: ACC 2361 or ACC 2301. Co-requisite: MGT 3360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 3362. Family Business and Franchising.**

This course addresses the important and unique management aspects of family businesses and franchises. Family business topics include family culture, communication, conflict resolution, succession, and estate planning. Franchising topics include franchise selection, contracts, legal issues, and current trends in franchising. Issues affecting both the franchisee and the franchisor are explored. Prerequisite: MGT 3361

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 3365. Communication Systems.**

Office information and decision support systems are examined as critical elements in business data and information systems. Emphasis is given to information processing considerations at the systems level, including analysis and management of support activities such as data and records management, electronic filing and retrieval systems, word processing, micro and reprographics, and telecommunications. Includes discussions of current and future technological trends. Prerequisite: MGT 3303. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## Management (MGT)

**MGT 3375. International Business.**

International business perspectives underlying different business functions. Concepts, processes, and philosophical bases for international operations in selected global markets are emphasized with culture and global dynamic environment as the basis. A project is required. Prerequisite: MGT 3303. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 3453. Business Communication and Professional Development.**

This course is designed to enhance critical professional skills including interviewing, networking, teamwork, emotional and cultural intelligence, public speaking, and applicable ethical considerations. It introduces theories of business communication including communication models, general semantics, and causes of miscommunication. Students will not receive credit for both MGT 3453 and MGT 3353. Prerequisites: ENG 1310, ENG 1320; and COMM 1310 or COMM 2338. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4315. Business Principles, Issues and Trends.**

Review of the fundamentals of business administration as applied to contemporary business problems. Also, a discussion of current business issues and trends. Open to students seeking certification only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4330. Operations Management.**

A study of the various aspects of managing production and operations management functions in manufacturing and service organizations. Methods necessary for analyzing and solving related problems to design, operations, and improvements of the systems that create products and/or services in a global supply chain environment are investigated and emphasized. Prerequisites: MGT 3303; QMST 2333 or IE 3330 or TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4335. Strategic Management and Business Policy.**

An integrative course in strategic management and business policy that utilizes the case method of instruction. A capstone course involving the analysis of business through the application of principles of accounting, communications, economics, finance, management, marketing, quantitative methods, and related disciplines. Prerequisites: MGT 3303; MKT 3343; FIN 3312; QMST 2333. Capstone course and open only to seniors in business. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4340. Quality Management and Beyond.**

A conceptual and practical overview of the role of quality as a system for establishing a "world class" competitive position. It explores philosophies and ideas of the leading thinkers in quality management, impact of process improvement methods, quality requirements definition and organizational change as it applies to total quality initiatives.

Prerequisites: QMST 2333 or consent of professor. MGT 4330 is recommended. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4350. Business Plan Development.**

Students work in teams to select, create, and write solid business plans for proposed or real businesses. Prerequisite: MGT 3361. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4351. Applied Entrepreneurship.**

Students design, staff, operate, and manage a business or service. Business teams develop financial and operational control systems and procedures for organizational, group, and individual performance evaluations, implement service and business projects, and provide a final public report. Prerequisite: MGT 4350

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MGT 4353. Integrative Field Project.**

Students work directly with entrepreneurs to research projects and recommend solutions. May involve providing business development assistance to entrepreneurs. Students may work individually or in teams. Project results are summarized in a comprehensive written report and a formal oral presentation. Permission of the instructor and chair is required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MGT 4370. Business Ethics.**

This course examines a variety of ethical issues in business from the point of view of practicing manager and corporate leaders. This course is designed to enhance moral awareness and facilitate individual development with respect to making ethical decisions that contribute to effective corporate management and leadership. Prerequisites: PHIL 1320; MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MGT 4371. Business, Government, and Society.**

An integration of a number of disciplines and value systems which affect and determine the proper role of business in satisfying the needs of customers, creditors, community, government, stockholders, managers, employees, suppliers, and society in general. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MGT 4372. Effective Leadership.**

This course facilitates the development of leadership capabilities and addresses the complexities, paradoxes, and challenges of leadership. Through self-assessments, readings, lectures, and assignments students gain an appreciation of effective leadership approaches and are provided with opportunities to practice new leadership behaviors. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4373. Human Resource Management.**

A study of the principles of human resource management in public and private institutions. Stresses the human resource aspects of recruitment, selection and placement, performance appraisal and compensation. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4375. Organizational Behavior and Human Relations.**

A study of the role of the individual in formal organizations, group dynamics, motivation theory, communication and leadership. Integrates behavioral science concepts. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4377. Labor Relations and Collective Bargaining.**

A study of unions and their impact on private and public employment. Examines union growth and governance, collective bargaining, contract negotiation and administration, and arbitration and mediation. Prerequisite: MGT 4373. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Writing Intensive  
**Grade Mode:** Standard Letter

**MGT 4378. Training and Development.**

This course is designed to develop theoretical and applied perspective on needs assessment, design, development, delivery and evaluation of training and development in organizational contexts. Prerequisites: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4379. Organizational Staffing.**

A study of current theory and practice in the process of selecting the right employees for positions within the organization, including HR planning, EEO, job analysis, recruitment, and selection procedures. Prerequisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4380. Compensation Management.**

A study of the compensation administration in public and private organizations, with stress on the determinants of general wage levels; job analysis and evaluation; incentive, merit, seniority, and executive compensation; fringe benefits, and wage and salary control. Prerequisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 4390A. Advanced Business Communication.**

An advanced study of the uses of business communication in modern organizations. Students gain experience in making decisions involving selection and organization of communication content, and in choosing an appropriate medium for presentation of information. Emphasis is placed on gaining proficiency in various business communication processes. Prerequisite: MGT 3303 and MGT 3353. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive  
**Grade Mode:** Standard Letter

**MGT 4390B. Management of the Digital Enterprise.**

A study of management in the digital age. Course will look at the impact of digital communications and the new economy on traditional and e-commerce businesses. Topics will include changes in both strategic management as well as functional management (marketing, operations, finance, HR, etc.) Prerequisite: MGT 3303. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive  
**Grade Mode:** Standard Letter

**MGT 4390E. Management of New Product Development.**

Identifies the requirements and benefits of effective and efficient new product development. Topics include best practices of new-product development management, managing the new product process from idea generation, evaluation and selection; business case development; validation and verification testing; and product launch; and product portfolio management. Prerequisites: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MGT 4390G. Cross-Cultural Human Relations.**

This course is designed to develop theoretical and applied perspectives on cross-cultural human relations within a variety of international business contexts. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MGT 4390J. Organizational Change.**

This course presents an overview of the change process and stresses the key issues involved in reengineering and renewing organizations. Problems dealing with stress and conflict during major change will be explored, along with practical ideas on building effective teams to make change possible and sustainable. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MGT 4390K. Business Creativity and Innovation.**

Focuses on the importance of creativity and innovation to business organizations. Topics include the generation of creative ideas, transformation of ideas into commercially viable products/services, legal protection of new products/services, and environmental factors contributing to innovation success. Course objectives are met primarily through classroom discussion and exercises. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter



**MGT 4390L. Managing Projects.**

Intensive coverage of management in a wide range of project applications from concept through operations. Planning, scheduling, controlling, economic analysis, quality control and customer satisfaction. Prerequisite: MGT 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390N. Management Thought: Past, Present, and Future.**

This course examines how management thought has developed over time. It discusses how changing political, social, economic, and technological forces have challenged managers to respond in new ways. Significant management ideas will be examined in their contexts to better understand how to successfully manage for the future. Prerequisite: MGT 3303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MGT 4390O. Leadership Development: Business as Unusual.**

This course is a directed study and practical application of the principles of "Business as Unusual". Students will develop leadership skills for the experience economy through an intensive, highly interactive class format. Students will be paired with upper-level business professionals for one-on-one coaching and mentoring

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390P. Coaching and Mentoring Practicum.**

This course is a directed, practical application of extant leadership theories and principles. Students will further develop their leadership skills through intensive experiential activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390Q. Introduction to Business in a Global Environment.**

The course introduces the modern business enterprise with an emphasis on the interdependence of the business functions in a global environment. Topics include the cross border impacts of culture, politics, and law on trade, investment, marketing, management, and accounting and financial systems. Restricted to BBA students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390R. Transformative Leadership for Nonprofits (NPs) and Non-Governmental Organizations (NGOs).**

This course provides a practical and strategic understanding of the legal, management and marketing challenges facing nonprofit and non-governmental organizations and the transformative leadership required to guide them as they attempt to do something positive for people, society and/or the environment beyond or between the roles of government and business

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4390S. Business Contracts/Negotiation.**

This course focuses on techniques for the development and strategic planning required for successfully negotiating business contracts, negotiation skills, and conflict resolution issues/techniques. Prerequisite: MGT 3303. Co-requisite: MGT 4373

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MGT 4392. Human Resource Management Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Management majors with human resource management concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election. Prerequisites: MGT 4373, Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4393. Entrepreneurial Internship.**

The internship class provides integration of prior professional and academic experience through an entrepreneurial internship with an external employer. Prerequisite: MGT 3360. Restricted to Management majors with entrepreneurship concentration only. Departmental approval required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4395. Management Internship.**

This course provides an integration of professional and academic experience through internship with an external employer. Enrollment subject to availability and approval, credit is pass/fail or grade at department election

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 4399. Independent Study in Management.**

Directed research and extensive written assignment(s) on a selected topic related to student's area of interest. Work may consist of literature reviews, integration of literature, or other appropriate independent research, and/or practical application of research. May be repeated once with different emphasis for credit. Prerequisite: Consent of Instructor and Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MGT 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5301. Graduate Assistant Development.**

Completion of this course is required as a condition of employment for graduate assistants. The course is seminar based and covers topics related to employment responsibilities. This course does not earn graduate credit. Graded on a credit (CR), no-credit (F) basis. Prerequisite: McCoy College Graduate Assistant

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**MGT 5310. Organizational Change Management.**

Presents an overview of the process of change in an organization and stresses the key issues involved in reengineering and renewing organizations. Problems dealing with stress and conflict during major change will be explored along with practical ideas on building effective teams to make change possible and sustainable

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5311. Process Improvement Management in Organizations.**

Learn existing and latest developments in process improvement techniques for continuous improvement and the role of quality as a system for establishing an organization's competitive advantage. Process mapping is emphasized and assessment of effectiveness in the interactions of the managerial and technical systems of organizations is also studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5312. Seminar in Management.**

Development of philosophy, strategy, and tactics in managing an enterprise. Administrative processes common to all enterprises, such as entrepreneurship, business and society, leadership and group behavior in organizations, business ethics, and international management. (Course may be repeated for credit with different course focus.)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5313. Strategic Management.**

An integrative approach to policy formulation and administration (decision making) to achieve organization objectives. Should be taken the last semester of student's MBA program. Prerequisites: QMST 5334, MKT 5321, ACC 5361, FIN 5387

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5314. Organizational Behavior and Theory.**

Organizational behavior and structure as influenced by environmental variables and system relationships. Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5315. New Venture Management.**

This course provides an overview of the entrepreneurial process from the initial idea through start-up, growth, and harvest. Students learn how to write a business plan, manage all the elements of an entrepreneurial business, and develop a better understanding of the requirements of the entrepreneurial life path

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5318. Cross-Cultural Management.**

The global environment requires sensitivity to and the adaptation of leadership and management skills and practices, and the culture-bound differences in workplace behavior and attitudes. Explores how differences in cultural core values shape behavior and attitudes of workers, managerial colleagues, and negotiating partners. Prerequisites: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5321. Supply Chain Management.**

A variety of tools and frameworks provide students and understanding of the basis behind supply chain decision making. Topics include supply management concepts, demand-supply management, pull/push system, capacity and resource allocation, performance measurement, relationship assessment, and outsourcing in an integrated supply chain. Require graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5325. Managing Business Creativity.**

This course focuses on the means by which businesses and individuals foster and maintain their creative and innovative skills. Key topics include: idea generation and refinement, idea screening, prototype development, and feasibility analysis. Objectives are met through classroom exercises, case analysis, guest speakers, and individual and team projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5330. Seminar in Human Resource Management.**

A study of current developments and practices in human resource management, including employment laws; planning, recruitment and selection; training and development programs; wage and benefits administration; performance management, human relations and productivity; labor relations; safety and health; an current contributions to human resource management theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5333. Problems in Business Administration.**

The student is here given the opportunity to work in the field of his special interest, particularly in the subjects of accounting, business law, marketing, statistics, finance, and insurance. The course will be conducted by conferences between the student and instructors concerned. Problems will be assigned as nearly as possible for the needs of the individual student

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5335. New Venture Launch.**

The purpose of this class is to ensure students gain a full understanding of what it takes to start and grow a business. Students learn the process of creating a new venture from the inside by planning, organizing and launching an actual business. Prerequisite: MGT 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MGT 5336. Compensation and Benefits.**

This course addresses the rewards systems in organizations. Strategic and technical considerations in designing, administering and managing compensation and benefits plans in organizations, including job analysis and evaluation, wage levels and structures, legal issues, individual and group incentives, and benefits are considered. Prerequisites/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5337. Organizational Staffing.**

A study of the methods involved in recruitment and selection of employees with an emphasis on measurement, job analysis, performance appraisal, legal issues, and the role of human resource planning and strategy. This course relies on statistics to teach students to make reliable and valid employment decisions. Prerequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5338. Human Resource Development.**

A study of theoretical and applied perspectives on needs assessment, design, development delivery and evaluation of training and development as well as organizational change and development. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5339. International Human Resource Management.**

A study of challenges that decision makers consider when managing their human resources across the globe. Drawing on theories and models from cross-cultural and international management areas, this course covers such topics as globalization, culture, emerging international assignments, and expatriate recruitment, selection, training, repatriation, and career management. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5345. Integrative Field Project.**

Student teams work directly with organizations and managers to solve significant managerial problems. Students apply their skills and knowledge acquired in the program in a real world setting. Results of the project are summarized in a comprehensive written report and a formal oral presentation. Prerequisites: Permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5375. International Management-Latin America.**

A study of the cultural, economic, regulatory, and political factors impacting international business. Emphasis is placed on theory and research of management phenomena in Latin America and on issues mediating commercial and governmental relations between the United States and Latin American countries. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content  
**Grade Mode:** Standard Letter

**MGT 5380A. Business Ethics Leadership.**

This course examines a variety of ethical issues in business from multiple stakeholder perspectives (top management, employees, community members, etc.). The course is designed to enhance moral awareness and facilitate individual development with respect to making ethical decisions that contribute to effective corporate management and leadership

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**MGT 5380B. Human Resource Information Systems.**

This course provides an overview of functional areas in an HRIS system with a focus on the acquisition of skills with respect to the software as well as knowledge regarding the implementation process, associated benefits and costs, and the application of HRIS to manage critical HRM processes. Prerequisite/corequisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**MGT 5380D. Labor Relations and Negotiation.**

This graduate level course is a study of labor organizations and their impact as well as negotiation and conflict resolution issues. The course will examine the National Labor Relations Act (NLRA), union and employer rights under the NLRA, union organizing, collective bargaining, negotiation, contract administration, mediation and arbitration. Prerequisite or Co-requisite: MGT 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MGT 5390. Business Research Methods.**

Designed to aid graduate students in analyzing reports, evaluating research and in planning research reports. Involves the selection of research problems, sources of data, analysis, presentation, report writing, directed reading, class reports, and a research problem

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5391. Managing the Communication Process.**

The study and application of theory and psychology of managerial communication using written, oral, and technological modes to communicate within the business environment. The course includes the process and product approach to graphics, leadership, problem solving, prioritizing, interviewing, and communicating change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5395. Graduate Business Internship.**

Integration of professional and academic experience through internship with an external employer. Prerequisites: MBA students only; must have completed 12 or more hours of graduate business courses; enrollment subject to availability and approval

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MGT 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in MGT 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**MGT 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MGT 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Manufacturing Engineering (MFGE)

**MFGE 2132. Manufacturing Processes Lab.**

Hands-on experience in variety of material removal processes such as turning, milling, drilling, and CNC machining; joining processes such as gas/arc welding, and soldering; metal casting, polymer and composite processing, and microelectronics manufacturing. Prerequisite or corequisite: MFGE 2332

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 2332. Material Selection and Manufacturing Processes.**

Overview of material processing, material selection and process parameter determination. Processes covered include: material removal, forming, casting, polymer processing, semiconductor manufacturing and assembly processes. Laboratory activities provide opportunities for applying the design through manufacture activities of the product cycle. Prerequisite: ENGR 2300. Corequisite: ENGR 2300

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 3316. Computer Aided Design and Manufacturing.**

Topics include design process, description of wireframe/surface/solid models, transformation and manipulation of objects, finite element analysis, data exchange, process planning, machine elements, fundamentals of numerical control programming for turning and milling processes, fundamentals of CAD/CAM systems, CNC code generation by CAD/CAM software, waterjet, and plasma cutting. Prerequisites: ENGR 1313 and MFGE2332

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 4355. Design of Machine Elements.**

This course will cover the general procedures in designing various machine elements. These elements include shafts and flexible elements, springs, welded/riveted/brazed joints, screw fasteners, rolling/sliding contact bearings, gears, cams, and followers. Emphasis will be placed on using standard design practices. Prerequisite: ENGR 3311 or TECH 2351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4357. Dynamics of Machinery.**

This course will cover kinematics and kinetics of particles; kinematics and kinetics of rigid bodies in two and three dimensions; application of dynamics to the analysis and design of machine and mechanical components; mechanical vibrations; linkages; gear trains; and balancing of machines. Prerequisites: MATH 3323 and MATH 3375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4363. Concurrent Process Engineering.**

Integrated design and development of products and processes; impact of ethical issues on design; the discussion of real-world engineering problems and emerging engineering issues with practicing engineers; preparation of reports; plans or specifications; cost estimation; project management, communication and the fabrication of an engineered product/system. Prerequisites: ENGR 3311, MFGE 4365, and senior standing. Corequisite: IE 3330. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MFGE 4365. Tool Design.**

Design of single and multi-point cutting tools, jig and fixture design, gage design, and the design of tooling for polymer processing and sheet metal fabrication. Laboratory projects will involve the use of computer aided design and rapid prototyping. Prerequisite: MFGE 3316 or ENGR 3316 or TECH 2310

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MFGE 4367. Polymer Properties and Processing.**

Structure, physical & mechanical properties, design considerations and processing methods for polymer-based materials are presented. Processing methods include: injection molding, blow molding, thermoforming, compression molding, extrusion, filament winding, lay-up methods, vacuum bag molding and poltrusion. Prerequisite: MFGE 2332 or TECH 4362

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 4376. Control Systems and Instrumentation.**

The theory of automated control systems and its applications to manufacturing systems are covered in this course. Topics covered include: modeling of systems, time and frequency domain feedback control systems, stability analysis, transducer and sensor technology and digital control. Prerequisites: PHYS 1430 and one of the following MFGE 2332, TECH 4362 or EE 3370. Co-requisite: MATH 3323

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4392. Microelectronics Manufacturing I.**

Provides an overview of integrated circuit fabrication including crystal growth, wafer preparation, epitaxial growth, oxidation, diffusion, ion-implantation, thin film deposition, lithography, etching, device and circuit formation, packaging and testing. The laboratory component involves production and testing of a functional semiconductor device. Prerequisites: CHEM 1141 and CHEM 1341

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**MFGE 4394. Microelectronics Manufacturing II.**

Topics include: atomic models for diffusion, oxidation and ion implantation; topics related to thin film processes i.e. CVD, PVD; planarization by chemical-mechanical polishing and rapid thermal processing; and process integration for bipolar and MOS device fabrication. Students will design processes and model them using a simulation. Prerequisite: MFGE 4392

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 4395. Computer Integrated Manufacturing.**

This course is an overview of computer integrated manufacturing is presented. Topics include control strategies for manufacturing systems, automated material handling systems, production planning, shop floor control, manufacturing execution systems, manufacturing databases and their integration, data communication and protocols and man/machine interfaces. Prerequisite: MFGE 3316. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MFGE 4396. Manufacturing Systems Design.**

Applications of simulation modeling to the design and analysis of manufacturing systems are presented in this course. Topics covered include queuing theory and discrete event simulation methods. Design projects will involve the use of current simulation language for modeling and analysis of manufacturing systems. Prerequisites: IE 3320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MFGE 4399A. Reverse Engineering and Rapid Prototyping.**

In the course 3D scanning technology for design, analysis, and inspection, is covered. Also, applications of the 3D scanning in reverse engineering and different rapid prototyping processes in a hands-on approach will be explained in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MFGE 4399B. Introduction to Reinforced Polymer Nanocomposites in Industrial Applications.**

Introductory course in reinforced polymer nanocomposites focusing on materials, manufacturing, characterization, and applications. Include, primarily nanoclay polymer matrix composites. Thrust will be the challenges in low-cost manufacturing for industrial applications, commercial successes, its impact on current material market, and future

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MFGE 4399C. Introduction to Industrial Robotics.**

This course will cover the basic principles and techniques involved in industrial robotics. Emphasis will be placed on industrial robot applications, analysis of robot manipulators, components of industrial robots, robot programming and control. Prerequisite: MFGE 4376

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MFGE 5316. Advanced Computer Aided Design and Manufacturing.**

Topics include design process, mathematical presentation of wireframe/surface/solid modes, transformation and manipulation of objects, finite element analysis, data exchange, process planning, fundamentals of multi-axis NC programming for turning and milling processes, fundamentals of CAD/CAM systems, CNC code generation by CAD/CAM software for the CNC, and waterjet machines. Registration required instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 5318. Additive Manufacturing.**

The course covers theory, techniques, and applications of Advanced Reverse Engineering & Freedom Fabrication. Topics include reverse engineering generic process, reverse modeling, contact and noncontact scanning, point cloud, geometric modeling, data extraction, rapid prototyping processes, uniform and adaptive slicing, industrial and medical applications, hardware, and software. Registration requires instructor's approval. Restricted to students enrolled in MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 5320. Polymer Nanocomposites.**

This course covers polymer nanocomposites focusing on materials, manufacturing, characterization, and applications. The primary focus is on fiber reinforced polymer nanocomposites. Morphological, Thermal, Mechanical, and Electrical Characterization will be discussed in detail. Applications include fire-resistant, ablative, fatigue-resistant, impact-resistant, and bio-based composites. Registration requires instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MFGE 5326. Advanced Robotics in Manufacturing Automation.**

This course covers principles and techniques involved in advanced robotics. Topics include introduction to robotics, industrial robotics, robot kinematics, path planning, robot dynamics, advanced control, force control, sensors and actuators, mobile robotics, and introduction to nanorobotics. Registration requires instructor's approval. Restricted to student's enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MFGE 5328. Advanced Control Techniques.**

This course covers advanced control techniques in manufacturing processes. Topics include modeling of dynamic systems, feedback control systems analysis, stability analysis, PID control, optimal control, programmable logic control, design of control systems, transducer and sensor technology, and digital control. Registration requires instructor's approval. Restricted to students enrolled in the MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MFGE 5398A. Multiscale Manufacturing.**

This course covers multiscale manufacturing processes, techniques, and applications. Topics include micro and nano-manufacturing, polymer and semiconductor fabrication, thin film technologies, bulk and surface micromachining, physics of multiscale manufacturing, microelectromechanical (MEMS) devices, and design issues for fabrication of micro and nano-systems. Restricted to students enrolled in MS Engineering, MS Computer Science, MS Mathematics, MS Physics, or MS Technology Management. Instructor's approval required

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MFGE 5398B. Advanced Composite Materials.**

This course examines various aspects of fiber-reinforced polymeric composites. The topics covered include constituent materials (fibers and matrices), mechanics, performance, manufacturing, and introduction to nanocomposites. This course also provides introductory treatments concerning ceramic matrix composites, metal matrix composites, and carbon/carbon composites. Restricted to students enrolled in MS Engineering program

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Marketing (MKT)

**MKT 3343. Principles of Marketing.**

This course studies the strategic marketing process, which creates value for consumers and organizations through integrated production and distribution of products. It examines the marketing process in the context of the global, cultural, economic, legal/regulatory environment. It also examines ethical and socially-responsible marketing and the impact of information technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3350. Consumer Behavior.**

A study of the role of the consumer in marketing. Considers the motivation, personality, attitudes, perceptions, lifestyle, and decision-making processes of consumers. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3355. Retailing.**

A study of the principles of retail store management, including market and trade area analysis, store location and design, organization and operation management, merchandising, inventory control, and promotion and pricing policies. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3358. Professional Selling.**

A study of the professional selling process including strategically planning sales calls, strengthening communication skills, responding helpfully to objections, obtaining commitment and building partnerships. Examines cultivating committed relationships, strategic alliances, and partnering skills to provide total sales quality to the company, suppliers, and customers. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3360. Sales Management.**

A study of issues related to planning for, managing, motivating, directing, and controlling a sales force and related sales territories. Both international and domestic perspectives are addressed. Special emphasis is given to the efficiency (cost consideration) and effectiveness (satisfaction consideration) of sales management. Prerequisite: MKT 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3362. Studies in Free Enterprises.**

The course will focus on developing goal setting, project identification, project planning and management, marketing, financing, and implementing student directed educational programs within the I-35 corridor. The projects are aimed at increasing citizen awareness and understanding of business and economic issues. Prerequisite: Consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MKT 3365. Services Marketing.**

The services sector dominates the U.S. economy and is becoming critical for competitive advantage in companies across the globe and in all industry sectors. This course examines the foundations of services marketing, which are necessary to create, promise, and deliver a successful, interactive customer experience. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3370. Marketing Research.**

This course offers a comprehensive study of marketing research process that includes formulating a problem, developing a research plan, determining a sample, analyzing data, preparing a research report, and linking the consumer, customer, public, and marketer through information. Prerequisites: MKT 3343; QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3375. Social Marketing.**

Social Marketing is the use of marketing principles and techniques to influence a target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a whole. In this hands-on course, students develop and implement marketing campaigns for social change on behalf of non-profit clients. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3380. Sports Marketing.**

Examines four components of sports marketing, including: (1) the foundation of sports marketing, (2) marketing through sports, including sponsorship, endorsement, and licensing strategies, (3) the marketing of sports, including marketing mix strategies, and (4) emerging topics in sports marketing, including relationship marketing, technology, and controversial issues. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3385. Ethnic and Niche Marketing.**

The course introduces students to marketing approaches used to understand and market products/services to U.S. ethnic and/or subgroups of consumers. The course includes consumer behavior and research techniques as well as implications to the marketing mix. Prerequisites: MKT 3343 and MKT 3350

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3387. Technology and Marketing.**

Study of the marketing process using technologies, e.g., the internet and mobile that support and enhance marketing capabilities, such as the distribution of information. The course examines the impact of technology on the marketing of goods and services to satisfy needs and wants of customers and stakeholders. Prerequisite: MKT 3443

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 3390. Marketing Health Care.**

A study of marketing and its role in health care, including buyer and service provider behavior, relevant marketing principles and strategies, and emerging topics, such as medical tourism, universal health care, and health care regulations. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4310. International Marketing.**

A study of the international planning and coordination of marketing functions, marketing policies, and the analysis of marketing on an international scope including environmental and cultural aspects. Pre: MKT 3343. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MKT 4325. Advanced Topics in Service Marketing.**

This class is a comprehensive study of services marketing theories, concepts, and strategies; it includes an examination of cost controls, research methodologies, branding, customer service innovation, consumer behavior, and service delivery. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4330. Promotional Strategy.**

Analysis of promotional methods used in marketing and their relation to other business functions. Examines advertising, selling, and sales promotion. Prerequisite: MKT 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4337. Marketing Management.**

An integrative course that applies management concepts and techniques to the solution of marketing problems. Analyzes market segments and product positioning, product and product line price, channels of distribution, and promotion. Prerequisites: QMST 2333; MKT 3343, and six additional hours of marketing courses. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MKT 4392. Sales Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Marketing majors with sales concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election. Prerequisites: MKT 3343 and MKT 3358. Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4393. Services Marketing Internship.**

This course integrates professional and academic experience through internship with an external employer. Restrictions: Marketing majors with services marketing concentration only; enrollment subject to availability and approval; credit- pass/fail or grade at departmental election.

Prerequisites: MKT 3343 and MKT 3365. Permission of Instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4395. Independent Study in Marketing.**

Directed research and extensive written assignment on a selected topic related to student's area of interest. Work may consist of literature reviews, integration of literature, or other appropriate independent research. May be repeated once for credit with different emphasis.

Prerequisite: Chair/instructor consent. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MKT 4396. Directed Study in Professional Sales.**

Directed study and research in selected professional sales topics. May be repeated for credit with a different emphasis. Prerequisites: MKT 3343, MKT 3358 and consent of instructor and/or chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 4397. Directed Study in Marketing.**

Directed study and research in selected marketing topics, including the development of a promotional or marketing plan. Course can be offered as individual instruction or as an organized class. Repeatable for credit with different emphasis. Prerequisite: Consent of instructor and Chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment Permitted

**Grade Mode:** Standard Letter

**MKT 4399. Marketing Internship.**

Integration of professional and academic experience through internship with an external employer. Prerequisites: MKT majors only, junior or senior status, enrollment subject to availability and Internship Director approval, credit is pass/fail or grade at departmental election

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5311. Current Developments in Marketing.**

Advanced study of marketing functions and institutions, marketing structures, strategies, policies, and problems. Students will be given an opportunity to examine developments of special interest to them.

Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5321. Marketing Management.**

A study of the planning and coordination of marketing functions, marketing policies, and the analysis of marketing administration.

Prerequisite: B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5322. Marketing Research Methods.**

An advanced study of the marketing research process to include problem formulation, determination of sources of information and research design, design of data collection forms, design of the sample, collection of the data, analysis and interpretation of the data, preparation of the research report, and oral presentation of the research findings.

Prerequisites: MKT 5321 and QMST 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5325. Global Marketing and the Value Chain.**

To understand the value chain concept and the linkages between value chains in the global marketplace. This will include evaluating the various value chains: supplier, firm, channel, and buyer in the global context.

Topics will include procurement, operations, logistics, negotiation, marketing channels, and customer service

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5330. International Marketing.**

An application of marketing concepts to the global business environment. Examines marketing in the light of international economic, social, cultural, business, and environmental factors. Prerequisite:

B A 5351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5331. Integrated Marketing Communications.**

An analysis of consumer behavior in the marketplace and its application to the preparation & presentation of a complete integrated marketing communications plan for a local, regional, and/or national client.

Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5335. Services Marketing.**

Services dominate the U.S. economy and are becoming critical for competitive advantage in companies across the globe and in all industry sectors. This course examines the foundations of services marketing, which are necessary to create, promise, and deliver a successful, interactive customer experience. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5395. Independent Study in Marketing.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in Marketing. Requires approval of instructor and program director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MKT 5397A. Sports Marketing.**

Examines four components of sports marketing, including: (1) the foundation of sports marketing, (2) marketing through sports, including sponsorship, endorsement, and licensing strategies, (3) the marketing of sports, including marketing mix strategies, and (4) emerging topics in sports marketing, including relationship marketing, technology, and controversial issues. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397B. Social Marketing.**

Social marketing is the use of marketing principles and techniques to influence a target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a whole. This course examines current applications of social marketing to solve societal problems. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397C. Technology and Marketing.**

Technology & Marketing covers the impact of new information technologies on marketing and marketing industries undergoing high levels of technological change. Subject areas such as social media, e-commerce, database marketing, business-to-business marketing, and customer contact management are examined and illustrated in industry settings that emphasize innovation through new technologies. Prerequisite: MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MKT 5397D. Marketing Metrics and Analysis.**

To understand the measurement, analysis, and interpretation of marketing metrics that are critical for marketing strategy development and firm performance. Topics will include metrics associated with customers, brands, marketing mix decisions, online strategy and social media, firm profitability, and marketing dashboards. Prerequisite: Graduate standing; MKT 5321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Mass Communication (MC)

**MC 1100A. Careers in Media.**

Students engage in career exploration in the media professions

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100B. Grammar for Journalists.**

Students refine their English grammar skills to a proficiency level needed to be successful journalists

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100C. Seminar in Sports Broadcasting.**

Students will engage in sports broadcasting and reporting activities. These activities will be completed through in-class and field-based experiences of at least 15 hours. Students will further develop their writing, broadcasting and interviewing skills

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100D. Digital Entrepreneurship.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100E. Digital Media Tools and Skills.**

This course will explore new tools and skills relevant to the digital age. Topics will include data visualization, spreadsheet usage, media creation software, mobile reporting, drones and sensors in journalism and video editing. May be repeated once for credit. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100F. Digital Media Innovation Concepts.**

This course will explore new concepts relevant to the digital age. Topics will include digital media history, ethics, law and will address online privacy, security, crime, identity and censorship. May be repeated once. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100G. Coding Workshop.**

This course will explore programming languages relevant to the digital age. Topics will include JavaScript, JQuery, Python, PHP, application programming interfaces, database languages, application development frameworks and other current topics. May be repeated once. Restricted to full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100H. Career Exploration: Destination America.**

This career exploration course allows mass communication students to visit and network with media professionals in the United States under the direction of faculty. The career development trip focuses on outlets in media centers in the United States such as: New York, Chicago, Seattle and San Francisco. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100I. Fundamentals of Layout and Design.**

Students will learn desktop publishing basics using Adobe Creative Suite's InDesign. The course will cover topics including creating documents for print or digital use, mastering tools required to create a simple page layout consisting of text and imagery and preparing files for review or publication. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1100J. Editing and Enhancing Digital Imagery.**

Students will learn how to edit, enhance, and create digital imagery for print and web use. Adobe Creative Suite's Photoshop will be used for photos and pixel-based images. Students will use Illustrator to work with illustrations and vector-based images. Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 1301. Introduction to Mass Communication.**

A survey of the mass media and other areas of mass communication designed to acquaint the student with the field of communication and what it offers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** COMM 1307

**MC 1313. Media Writing.**

This course is an introduction to the major forms of Media Writing: electronic media, journalism, public relations and digital. Prerequisite: Full major status and typing skill. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** COMM 2311

**MC 2111. Media Practicum.**

Students perform supervised media work of at least 60 hours for the semester. Credit requires prior written contract with a supervising faculty member. May be repeated twice. Graded on a credit (CR), no-credit (F) basis. Prerequisite: Minimum 2.0 Overall GPA and good academic standing

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MC 3306. Writing for the Electronic Media.**

The study and practice of writing copy for the electronic media, including the composition of commercials, news stories, public service announcements, promotions and documentaries. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter



**MC 3307. Audio Production.**

The basics of digital audio production with emphasis on techniques used in producing commercials, public service announcements and promotions. Lab requirements include a regular air-shift on the campus radio station and structured group meetings. Restricted to full major status

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 3311. Video Production.**

Basics of analog and digital video production. Emphasis on techniques used in producing newscasts, commercials, public service announcements, promotions. Lab requirements include field and studio production. Prerequisite: Full major status

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 3312. Television News.**

Standard theory and practice of electronic news gathering and production, including writing copy to match video and synchronization of audio and video in news stories. Students work on a campus news program. Prerequisites: Full major status, MC 3306 and MC 3311 or MC 4356I. (WI)

**3 Credit Hours. 1 Lecture Contact Hour. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3319. Visual Communication.**

This course studies the principles, theories, and language of visual communication, emphasizing the evaluation and use of images in mass media. It is designed to help you integrate words and pictures in mass communication and to gain a greater appreciation of our visual world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3321. News Writing and Reporting I.**

Integrating writing and reporting skills to produce stories across media platforms, including print and online, with an emphasis on storytelling. The study of techniques for locating and assessing information from multiple sources, including interviewing, fact verification, online research and the use of libraries. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3343. Introduction to Public Relations.**

This is the introductory course for the public relations sequence. Students will explore the functions of public relations in the digital age in the development of strategic communications for corporations, companies, government offices, non-profit organizations and public relations agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3355. Mass Media and Society.**

This course offers an examination of the roles of the mass media in American society, including an analysis of the philosophical basis of media structure; mass media as business; media effects of public issues, morals and tastes; and other contemporary issues within a global media context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3360. Public Relations Research.**

Students will study the principles, techniques and problems of social science research and digital analytics as they relate to the planning and evaluation of strategic communication. Prerequisite: Full major status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3367. Advertising.**

A broad overview of advertising including history, role and responsibility, and impact of the digital revolution. Key topics will be research, account service, media planning, creative, sales promotion, public relations, campaigns, and the advertising agency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3368. Advertising Copywriting.**

Study of writing and producing advertising copy for print, broadcast and digital media. Emphasis on formative research, market and consumer analysis and the creative process. Prerequisites: Full-major status, MC 1313, MC 3367. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3372. Advertising Media Planning.**

Study of planning and buying messages in traditional and new media to creatively and effectively reach targeted prospects. Attention is given to media characteristics, scheduling, testing and buying efficiencies.

Prerequisites: Full major status, MC 1313, MC 3367, and MC 4317 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3373. Broadcast Commercial and Promotion Writing.**

Writing and producing radio scripts and television storyboards for commercial messages. Study will include audiences, programming, research and copytesting, and regulations. Spot announcements will be produced for class. Prerequisites: Full major status, MC 1313, 3367. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3375. Programming in Electronic Media.**

Study of the principles and strategies of winning audiences for the electronic media: television radio, cable, satellite and the internet

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MC 3379. Advertising and Public Relations Management.**

Study of managerial problems in advertising and public relations programs. Case study approach to setting goals, developing strategy, budgeting and working in a client-agency relationship. Prerequisites: Full major status, MC 1313, MC 3343 or MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 3383. Editing for Clear Communication.**

A course designed to help writers divorce themselves from the creative process and function as editors of their own work and the work of others, focusing on meaning, accuracy, logic, language, sense, organization, style, and form appropriate to audience and medium. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 3390. Media Design.**

Study and application of advanced principles of media design including: basic design principles, typography, color, photography, video, and multimedia. Students will learn production skills for existing and new media. Pre-requisite: Full-major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Lab Required|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MC 3394. Management of Electronic Media.**

The study of the management of electronic media, including sales, federal regulation, and responsibilities to society, community and stockholders. Prerequisite: Full major status

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4130. Internship.**

This course requires a minimum of 100 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**1 Credit Hour. 0 Lecture Contact Hours. 5 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 4230. Internship.**

This course requires a minimum of 150 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**2 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4301. Media Law and Ethics.**

This course offers a study of law governing journalism, advertising, electronic media and public relations. Restricted to full major status and junior standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4302. History of Mass Media.**

Students will study the development of mass media, advertising and public relations in the United States from 1690 to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4303. International Advertising.**

Overview of international marketing and advertising; problems and opportunities of a global economy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4304. Advertising Strategy and Execution-Portfolio.**

Course emphasizes projects that allow students to learn how to produce and display professional portfolios to enhance their employment opportunities. Prerequisites: Full major status, MC 1313, MC 3367

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 4305. Theories of Mass Communication.**

A study of the predominant theories of communication, including mass media effects, functions and controls. Prerequisites: Full major status. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4306. Advertising Competition.**

The course will focus on developing an integrated marketing communications campaign for a national client as part of the National Student Advertising Competition. Students will create a campaign from the developmental through the execution process. Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4307. Advertising Campaigns.**

Students will develop, coordinate and evaluate a complete advertising campaign for specific clients. Students will conduct market research, formulate objectives and strategies, recommend media plans and develop creative executions through plans books and presentations.

Prerequisites: Full major status, MC 4316G, MC 4317, MC 3372. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4308. Women and Minorities in the Media.**

Analysis of the images of women and minorities in the media and their status as media professionals. Includes study of the alternative media. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 4309. Visual Literacy: Film.**

The course will teach how meaning is constructed in visual images by using film as a practical medium. It provides the necessary skills to critique and create effective images. It is especially useful for students majoring in image-based sequences of the mass communication major, particularly broadcasting and advertising

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4310. International Communication.**

A study of media systems worldwide in different socioeconomic contexts and an examination of patterns of international communication flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4311. Independent Study: Advertising, Broadcasting, Print Journalism, Public Relations.**

Students complete an academic project requiring the equivalent of 160 hours work. Requires prior written contract with faculty member and portfolio of completed work. Cannot be repeated. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MC 4312. Photojournalism.**

Students will develop skills in camera operation, learn computer software applications, learn how to combine words with stories, and how to make layouts and designs for print and multimedia. Students will learn basic analog and digital camera operations, and how to process digital images for the Web and for printing. Restricted to full major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4313. Writing for Public Relations.**

This course provides an examination and application of digital and traditional communication tools required for effective public relations. Emphasis is placed on the strategic use of digital media in a modern communication society. Prerequisites: Full major status, MC 1313 and MC 3343. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4315. Web Design Publishing.**

Students will develop skills in web page construction including Web editing, image and graphic manipulation, animation, and audio and video editing. The course will cover the topics of design, content, and accessibility, as well as important social and ethical issues associated with online publishing. Prerequisite: Full-major status

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4316D. Advertising Media Sales.**

An overview of advertising, media selling, and salesmanship, sales strategies, sales management, and case histories designed to acquaint students with a vital function of the business. Prerequisites: Full major status, MC 1313, MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4316G. Advertising Copywriting and Layout I.**

This course is an introduction to the basic elements of using visual and verbal elements in print, broadcast and internet advertising to solve advertising communication problems. Prerequisites: Full major status, MC 1313, MC 3367, and MC 4317

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4316H. Advertising Copywriting and Layout II.**

This is an advanced copywriting and ad layout class. Using the skills learned in MC 4316G, students will expand their digital techniques, art directions skills and writing capabilities to create professional level ad campaigns. Prerequisites: Full-major status and MC 4316G

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4317. Account Planning.**

Hands-on introduction to applied advertising research and account planning. Primary, survey and qualitative research methods are designed, executed and presented by students for the purpose of integrating the consumer's perspective into creative strategy. Prerequisites: Full-major status, MC 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4318. Media Ethics.**

The study of freedom and responsibilities of the mass media practitioners and institutions, explored within the framework of ethical theories. Consideration of values, codes of ethics, moral development, professionalism and institutional constraints as applied to the media of information, persuasion and entertainment will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4319. Latinas/Latinos and the Media.**

The course focuses on demographic developments related to Latinos in the US; their portrayals in the media; the effects those portrayals; the history and current status of selected Latino-oriented media and ancillary media companies and organizations; and the role of the media in Latino politics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4320. Public Relations Campaigns.**

A comprehensive study of effective public relations in a modern society. Students learn the professional approach to the practice of public relations that includes internet applications and how to evaluate its function and value while applying ethical standards of conduct. Prerequisites: Full major status; MC 3360 and MC 4313; and one course from MC 3390, MC 4315, or MC 4326. Minimum grades of "C" are required in all prerequisites. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MC 4321. News Writing and Reporting II.**

Integrating the techniques of investigative and in-depth writing and reporting across media platforms, including print and online. The study of techniques for computer-assisted reporting, database reporting, access to governmental or corporate records and the use of open records laws. Prerequisites: Full major status, MC 3321. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4322. Health Communication Campaigns.**

This class will provide an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. We will examine persuasive approaches to behavioral change; audience, message and channel factors in campaign development. Our work will emphasize communication approaches, including mass media, social marketing and "new media."

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4323. Multimedia Journalism.**

Students will be introduced to topics related to online journalism. Topics covered will include the online journalism profession, Web credibility, online reporting sources, cyberlaw including libel and copyright, blogging and podcasting, and basic multimedia design. Students will both critique and create online materials. Prerequisites: Full-major status, MC 1313 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4324. Visual Storytelling.**

This course is an introduction to basic elements of video journalistic storytelling for today's converged newsrooms. Students gather information using journalism practices, such as in-person interviews, and learn to use video newsgathering technologies to produce stories for online and other digital platforms. Prerequisite: Full-major status

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4325. Coding and Data Skills for Communicators.**

Students are introduced to programming and data concepts relevant to communicators. Data visualization and storytelling tools and techniques are covered as related to journalism, advertising and public relations.

Prerequisites: Full-major status, MC 4315 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4326. Advanced Social Media and Analytics.**

This course will provide students with an advanced understanding of social media, marketing plans and social media analytics. Students will build company and/or journalistic profiles on social networks - Facebook, Twitter, Pinterest, YouTube, Instagram and more - to engage with audiences and communities and utilize analytical tools to track success. Prerequisites: Full-major status, MC 4381 with a grade of "C" or higher

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 4327. Mobile Media and Development.**

This course will introduce students to mobile communication and production that is relevant to mass communication. As mobile devices are a vital communication medium in our everyday life, it is essential to understand how mobile communication works and how to effectively produce online content for mobile devices. Prerequisites: Full-major status, MC 4315 with a grade of "C" or higher

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4328. Digital Media Innovation Capstone.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology. Prerequisites: Full-major status, MC 4315 and MC 4382U or MC 4326 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4330. Internship.**

This course requires 180 hours of off-campus experience, written contract with internship coordinator and portfolio of completed work. Students cannot gain more than six hours of credit for any combination of: MC 4130, MC 4230 and MC 4330. Prerequisites: 30 credit hours, full-major status, good academic standing and appropriate sequence coursework

**3 Credit Hours. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 4336B. Documentaries.**

A course in reporting and production of comprehensive public affairs and feature stories for the electronic media. Prerequisite: MC 3312. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4336E. Code Camp I.**

Students are immersed in programming concepts relevant to communicators. Students will practice document object model manipulation using JavaScript and JQuery to create interactive Web projects

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4336F. Code Camp II.**

Students are immersed in data and visualization concepts relevant to communicators. Students will create interactive data visualization projects to be presented on the Web

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4356A. Science Writing and Reporting.**

Students learn to interpret complex concepts and present accurate, engaging news and feature stories about the latest research.

Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4356B. Editorials, Columns, and Reviews.**

The study and writing of newspaper, magazine and online editorials, columns, and books, film and music reviews. Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356C. Community Affairs.**

A lecture-discussion course, dealing with the coverage of local economy and business, government and social services functions as well as political activities like elections and lobbying efforts. Prerequisites: Full major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356F. Feature Writing.**

A course designed to expose students to the art of feature writing through the study of acclaimed works of literary journalism. Students will develop a narrative voice of their own while studying and analyzing the techniques of a diverse group of writers. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4356G. Magazine Writing.**

This course introduces students to long form nonfiction writing for magazines. Crafting longer pieces requires a honed set of skills that includes deft interviewing and observation, an understanding of structure and pace and powers of discernment and nuance. Prerequisites: Full major status, MC 1313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4357. Sports as News.**

This course emphasizes the reporting, writing and production of content for both print and electronic media. Students will interview players, coaches and administrators of collegiate athletics and work with media professionals to better understand challenges and demands of contemporary sports coverage. Prerequisites: Full-major status, MC 1313

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 4376C. Public Relations Case Studies.**

Public Relations Case Studies will seek, with case studies and problems, to help future practitioners develop agility in the principles and the application of effective two-way communications in a wide variety of situations likely to confront them and their employers. Prerequisites: Full major status, MC 1313, MC 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4376D. Public Relations Writing & Design.**

Students will gain a broad understanding of the wide range of print publications and writing assignments found in public relations. They will learn how to research, organize, write and design a variety of print pieces for targeted audiences using a popular design and layout program. Prerequisites: Full major status, MC 1313, MC 3343. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4376E. Public Relations Fundraising and Special Events.**

This specialized course deals with the development and implementation of fundraising. Topics include grants, special events, and annual/capital campaigns. Prerequisites: Full major status; MC 1313 and MC 3343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4376F. International Strategic Communication.**

This course will explore advertising and public relations practices in foreign countries through readings, discussion and site visits within media organizations in foreign countries. Marketing practices abroad will be compared to those in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4381. Fundamentals of Digital and Online Media.**

Students will be introduced to topics related to digital/online media and mass communication. Course covers the effects of the Internet and related technologies on the fields of journalism, interactive advertising and public relations, search engines, personal branding, social networking and mobile platforms

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 4382L. Feature Writing and Freelancing.**

This course is designed to introduce students to the technical expertise, research methods, interviewing skills and narrative techniques pertinent to feature writing. The course also explores how to target a feature story to a specific audience and how to submit feature stories for publication to newspapers and magazines. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4382N. Seminar in American Journalism: National Writers Workshop.**

This is a seminar in current issues in American journalism. National Writers Workshops bring together journalists to discuss issues in the industry and offer sessions on many media topics. Prior to the NWW we will study the literary form used by presenters and the issues being presented at the workshop

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MC 4382O. Travel Journalism.**

Exploration of techniques of writing journalistic travel narratives for the media. The course may involve travel at the student's own expense

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**MC 4382Q. Media in Asia and Southeast Asia.**

This course will study media systems in Asia and Southeast Asia and examine the different socioeconomic contexts and patterns of information flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MC 4382R. Media Violence.**

This course examines the relationship between exposure to media violence (TV, movies, video games) to aggressive behavior. It will introduce you to the most important published research in this study area as well as to the continuing controversy as to how, or even whether, media violence leads to aggressive behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 4382W. Digital Media Innovation Capstone.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 4382X. Sports Media.**

Sports Media explores the synergy among sports, athletes, media, public relations, advertising-marketing-promotion, and sports information, disciplines and audiences in a multiplatform media environment. Through class activities and practical experiences, students analyze media - newspapers, magazines, books, movies, radio, TV, online, forums, blogs and social media - in relationship to the sports industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 4382Y. Mobile Storytelling in the Park.**

This course will explore new tools and skills relevant to the digital age, particularly the usage of smart phones in storytelling. Students will use those skills to produce video content as part of a weekend in a state park

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 4386. Journalism Project.**

This is a senior portfolio course integrating a variety of journalism skills to produce a substantial work ready for publication online and in print. Students will combine elements of writing and visual storytelling to produce an original collection of journalism. Prerequisites: Full major status, MC 3321. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive  
**Grade Mode:** Standard Letter

**MC 5155. Teaching Techniques in Mass Communication.**

Required of, and open only to, graduate teaching and instructional assistants as a condition of employment. This course provides training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**MC 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5255. Teaching Techniques in Mass Communication.**

Required of, and open only to, graduate teaching and instructional assistants as a condition of employment. This course provides training and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA  
**Grade Mode:** Leveling/Assistantships

**MC 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5301. Mass Media and Society.**

A seminar devoted to analysis and discussion of significant contemporary issues in mass communication, including a study of the history of the development of mass communication media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5302. Research Methods in Mass Communication.**

Investigation of the tools and techniques of both qualitative and quantitative research methods used in the study of mass communication, including surveys, content analysis, experimental designs and case studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5303. Theories of Mass Communication.**

Examination of the literature of mass communication theory and discussion of theoretical approaches and models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5304T. Health Communication Campaigns.**

Provides an overview of the theory and practice of designing, producing and evaluating health-communication campaigns. Examines persuasive approaches to behavioral change as well as audience, message and channel factors in health-campaign development. Emphasizes communication approaches, including mass media, social networking and new media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**MC 5304W. Web Content Management Systems.**

Web Content Management Systems. (0-3) Students in this class will develop advanced Web building skills. Specifically, students will be introduced to various Web Content Management Systems and taught how to use these applications to manage content and build Web sites efficiently. Prerequisite or corequisite: MC 5312 or consent of instructor  
**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**MC 5304Y. Feature Writing.**

This course provides an in-depth understanding of the technical expertise, research methods, interviewing skills and narrative techniques pertinent to feature writing. The course also explores how to target a feature story to a specific audience and how to submit feature stories for publication to newspapers and magazines, print and online  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5304Z. SXTXState Project.**

This course involves coverage of the South By Southwest Interactive Conference. Students apply and are selected for the project. Students prepare for the event, attend panels, interview participants and maintain the website and social media. Restricted to Mass Communication Graduate Students. Prerequisite: MC 5312 or consent of instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5306A. Digital Media Entrepreneurship.**

This course will explore innovation and creativity associated with digital entrepreneurship. Through a speaker series, students will be introduced to important concepts and ideas from thought leaders and innovators at the intersection of media and technology. Restricted to Mass Communication Graduate Students  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5306B. The Psychology of Social Media.**

This course reviews social cognitive theories and research about the way social media users both produce and consume social media messages. It will examine clinical psychological and psychiatric effects that take place among social media users who do not have a clinical diagnosis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5306C. Code Camp II.**

Students are immersed in programming concepts relevant to communicators. Students will practice document object model manipulation using JavaScript and JQuery to create interactive Web projects

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5306D. Code Camp II.**

Students are immersed in data and visualization concepts relevant to communicators. Students will create interactive data visualization projects to be presented on the Web

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**MC 5307. Project.**

A major communication effort, the purpose of which is to demonstrate command of the skills necessary to work at advanced levels in mass communication. For example, it may be broadcast documentary, advertising or public relations campaign, or a newspaper series.

Prerequisite: Consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5308. Seminar in Advertising and Public Relations.**

This course analyzes advertising and public relations issues using an integrated communication framework. Students are introduced to the advertising and public relations decision-making process, learn what problems real organizations experience and evaluate how they resolve issues in such areas as client-agency relationships, strategic planning/management, globalization, channel integration, cyber marketing, evaluation, etc

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5309. Gender, Race, and Class and the Media.**

This course takes a theoretical approach to the study of representations of gender, race, and class in the mass media and the lives of the media professionals who belong to marginalized groups. A historical overview will be followed by an in-depth look at current conditions. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 5310. International Communication Issues.**

This course examines the media systems worldwide in different socioeconomic contexts and studies the patterns of international information flow. The course includes theories governing international communication. Students learn how and why communication takes place between different nations and the impact of this communication on individual nations. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MC 5311. Independent Study.**

Study of a special interest that offers academic or professional improvement and growth in the field of Mass Communication. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5312. Online Media Design.**

This course will instruct students in Web development and design and address the appropriate usage of text, graphics, sound and video on mass communication sites. The class will also address social and theoretical implications of technology, such as the digital divide, cyberlaw, e-commerce, and Web credibility and accessibility

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MC 5313. Media Law.**

Study of laws and regulations as they pertain to media operations and the internal and external codes that guide media behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5314. Strategies in Media Management.**

This course offers an analysis and discussion of issues involved in digital and other media ownership and operation, including monopoly and competition, labor relations, human resource management and staffing, the politics of workplace supervision and market relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5315. Creative Problem Solving in Mass Communication.**

This class examines the psychology of creativity and its application in mass communication to media management, broadcasting, advertising, and public relations. Students learn a variety of ideation techniques and structured creative problem solving methods to better understand their own creative thinking process, and how to facilitate creative thinking in groups

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5316. Digital Media Issues.**

This course will examine the role of digital media, including the Internet, Web and mobile technologies. Issues discussed will include social media and cyberculture research, technology diffusion, data journalism and the effects of digital technologies on society and culture

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5317. Advanced Online Media.**

Students will gain advanced skills in multimedia layout and design. Techniques include audio/video editing, Flash development, and database management as practiced in the communication disciplines. Theoretical and practical considerations of emerging technologies to the media industry will be integrated with production techniques. Prerequisite: MC 5312 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MC 5318. Media Ethics.**

The study of freedom and responsibilities of mass media practitioners and institutions, explored within the framework of ethical theories. Students will learn philosophical constructs as well as contemporary ethicists. Consideration of values, codes of ethics, moral development, professionalism, and institutional constraints as applied to media of information, persuasion, and entertainment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5319. Mass Media and Politics.**

The class will review key literature in the area of mass media and politics and engage in original research related to mass media and statewide, congressional and/or presidential elections. Class focus may vary by professor, e.g. Latinos in the United States

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5321. Latinos and Media.**

An immersion into the study of Latinos, their representations in media, and media oriented to Latinos. The course will require students to engage in in-depth research about Latinos and media issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5322. International Advertising and Public Relations Issues.**

This course examines multinational advertising and public relations organizations and how they function in a global marketplace. Students learn how these organizations serve specific client needs in increasingly complex societies and cultures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5323. Current Issues in Mass Communication.**

This course examines current theoretical and professional issues in mass communication. This course may be repeated once with a different emphasis for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5324. Media Writing.**

This course is designed to impart media writing skills. Students will learn information gathering and interviewing skills, and narrative techniques pertinent to different mass media. Emphasis may vary. This course may be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5325. Music Marketing.**

This course integrates all areas of marketing management and relates media and marketing activities to the other functional areas of the music business, including music publishing, live entertainment, recording companies, and production. Strategic planning and analytical procedures for marketing managerial decisions and their relation with the media will be emphasized

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5326. Strategic Communication Campaigns.**

A comprehensive study of strategic communication campaign planning with emphasis on public relations and advertising. Students will combine theory and practice to develop, coordinate and evaluate advertising/public relations campaigns for key audiences. Prerequisite: MC 5308 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5327. Visual Communication.**

This course examines the principles, theories, and language of visual communication, emphasizing the evaluation and use of images in digital mass media. Students will learn about media influences on their perceptions of reality and their behavior, the elements of visual literacy, and multicultural and global perspectives in visual media

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MC 5328. Digital Video Production.**

This course involves discussion, development and analysis of documentary video and digital media. Students will explore digital media techniques used in writing and producing features, documentaries, and related programming. It is designed for the novice student with emphasis on pre- and post-production activities from research to final project

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 5329. Media Systems in Latin America.**

Students will analyze media systems Latin America within their historical, cultural and political contexts. The course provides a comparative perspective of the role of the media within the region, their national markets and international Latino market. Students will ground these investigations with theories of international communication and information flow

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MC 5330. Internship in Mass Communication.**

Students acquire on-the-job experience in an off-campus media setting where they can apply the skills and knowledge acquired through mass communication graduate course work. Requires 180 hours of work off-campus, a written report, and portfolio of work product. Graded on a credit (CR), no credit (F) basis. Prerequisite: Consent of the graduate advisor and internship coordinator

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5350. Foundations of Mass Communication.**

This course may be taken only to fulfill mass communication background requirements. Students will acquire knowledge of mass communication necessary for advanced studies. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5352. Editing for Clear Communication.**

The course explores the role of editors in gate keeping and how writing varies by audience and medium. Designed to teach students how to edit using Associated Press style while focusing on accuracy, organization, language, logic, style, and meaning. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Lab Required|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5353. History of Mass Media.**

Students will examine the growth and role of mass media in the United States from 1690 to the present in the context of the nation's history. This course does not earn graduate degree credit. Repeatable with different emphasis. Prerequisites: Mass Communication major status and consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MC 5399A. Thesis.**

A scholarly study of communication behavior, the purpose of which is to broaden understanding of what mass media do, how they do it, and with what effects. It may be quantitative, historical or rely upon another appropriate methodology. No thesis credit is awarded until student has completed the thesis in MC 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: Completed course work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: MC 5399A and completed course work

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MC 7304A. Seminar in Advertising and Public Relations.**

Analysis and discussion of the development and role of advertising and public relations in the field of mass communication. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MC 7304B. International Communication.**

A review of international communication theories and a critical examination of the world media systems and information flow patterns. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Topics

**Grade Mode:** Standard Letter

**MC 7311. Directed Research in Mass Communication.**

Independent study of a specific mass communication research area. May be repeated with different emphasis for additional credit. Prerequisite: Doctoral level standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Materials Science, Engineering, and Commercialization (MSEC)

**MSEC 7100. Doctoral Assistant Development.**

The course is designed to equip the doctoral students with skills and an understanding of proper procedures to be effective teaching assistants. This course does not earn graduate degree credit, and is graded on a credit (CR), progress (PR), or no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MSEC 7101. Commercialization Forum.**

The course is a seminar series exposing students to commercialization issues. The series includes as speakers: successful entrepreneurs, businessmen, research directors, production and process control engineers, intellectual property and licensing experts, management consultants, and technology transfer specialists. Second year students will present business plans that they developed. Repeatable four times for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7102. MSEC Seminar.**

This course is an introduction to current topics through reading of scientific literature with presentations by guest lecturers as the basis for weekly discussions. Students participate by choosing current, high-quality research articles for discussion and will present at least one article during the semester. Repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7103. Research in Materials Science, Engineering, and Commercialization.**

This research course is for students in Materials Science, Engineering, and Commercialization who have not yet passed their candidacy exam, typically under supervision of the PhD Research Advisor. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable (with MSEC 7303 hours) for doctoral credit up to 6 hours

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7199. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7201. Principles of Technical Project Management.**

This course includes planning, budgeting, identification of risks and risk mitigation approaches, resource allocation, review of milestones and schedules, and evaluating projects to measure success. Responsibilities of project managers in the areas of problem solving, motivating and managing creative technical staff in project and matrix organizations will be included

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7299. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7301. Practical Skills in Commercialization and Entrepreneurship.**

This course is the first of a two course series to impart business and commercialization skills by producing a business plan. Key areas covered include intellectual property law, technology transfer and licensing strategies, business plan development, business finance strategies, management structures, project management methods, statistical quality and process control

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7302. Leadership Skills in Commercialization and Entrepreneurship.**

Leadership Skills in Commercialization and Entrepreneurship (3-0). This course is the second of a two course series to impart business and commercialization skills by producing a business plan. Key areas covered include intellectual property law, technology transfer and licensing strategies, business plan development, business finance strategies, management structures, project management methods, statistical quality and process control. Prerequisite: MSEC 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7303. Research in Materials Science, Engineering, and Commercialization.**

This research course is for students in Materials Science, Engineering, and Commercialization who have not yet passed their candidacy exam, typically under supervision of the PhD Research Advisor. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable (with MSEC 7103 hours) for doctoral credit up to 6 hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7304. Collaborative Research/Commercialization Experience.**

This course allows Ph.D. level graduate students to initiate, conduct and participate in a collaborative research or commercialization experience with graduate faculty in addition to research conducted under MSEC 7103, MSEC 7303, MSEC 7199 and MSEC 7399. This course recognizes the collaborative nature of the scientific and commercialization enterprise. Repeatable for doctoral credit up to 6 hours

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7310. Nanoscale Systems and Devices.**

This course is an in-depth treatment of physical phenomena in nanoscale structures, and consequences for electronic, photonic, mechanical and other types of devices. The course provides a strong background in devices with applications in nanoelectronics, biomedical systems, micro- and nanoscale manipulation, adaptive optics, and microfluidics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MSEC 7311. Materials Characterization.**

This course covers skills and knowledge required for microscopy methods including transmission electron microscopy, scanning electron microscopy, scanning tunneling electron microscopy, atomic force microscopy, and confocal microscopy. It covers x-ray and neutron diffraction techniques including structure analysis, powder and glancing angle diffraction, pole figure, texture analysis, and small angle scattering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7312. Thermodynamics and Kinetics for Material Scientists.**

This course provides a solid understanding of thermodynamics and kinetics of materials, how the rules of thermodynamics and kinetics relate to real-world phenomena, such as phase transformations, phase diagrams, microstructural evolution, and how to use processing to produce a desired microstructure

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7315. Quantum Mechanics for Materials Scientists.**

This course includes quantum-mechanical foundation for study of nanometer-scale materials, principles of quantum physics, stationary-states for one-dimensional potentials, symmetry considerations, interaction with the electromagnetic radiation, scattering, reaction rate theory, spectroscopy, chemical bonding and molecular orbital theory, solids, perturbation theory, and nuclear magnetic resonance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7320. Nanocomposites.**

Characteristics of nanoparticles utilized in nanocomposites, techniques for surface modification, methods for nanoparticle dispersion forming nanocomposites, types of nanocomposites, characteristics of nanocomposites, analytical methods for characterization of composites, and common applications will be discussed. Particular attention will be given to the science and theories explaining the unique behavior of nanocomposites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7330. Computational Materials Science.**

Application of computational techniques to molecular and atomic modeling of materials is discussed along with quantum mechanical modeling, density functional theory approaches, forcefield based molecular modeling, mesoscale modeling, energy minimization, molecular dynamics, vibrational spectra, crystal structures, phase equilibria, physical property prediction, and electronic structure related to magnetic and electrical properties. Prerequisite: CHEM 3340 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7340. Biomaterials and Biosensors.**

The course covers the growing field of biomaterials science including materials for prosthetics and implants, mimetic materials, biosensors, diagnostic devices, and drug delivery systems. Particular attention will be given to nanomaterials for diagnosis and treatment of diseases including targeted cancer treatments, drug delivery systems, and advanced imaging methods

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7350. Frontiers of Nanoelectronics.**

This course provides an introduction to the operating principles of nanoscale electronic and optical devices. The emphasis is on how leading edge nano-fabrication technology takes advantage of quantum mechanics of reduced sizes and dimensions. Specific examples of devices based on quantum wells, wires, dots and molecular electronics are given

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7360. Nanomaterials Processing.**

The course will cover various aspects of processing of nanomaterials from synthesis through incorporation into consumer goods. Specific topics to be covered in the synthesis of nanomaterials will include CVD, MBE, precipitation, spray drying, hydrothermal, electrochemical, mechanical grinding, phase separation, and shock wave

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7370. Advanced Polymer Science.**

Advanced topics in polymer science are discussed with a focus on high performance polymers such as high impact, conducting, shape memory, high temperature and the underlying phenomena that provide these unusual properties, and advanced polymer topic areas such as flame retardancy, barrier properties, dielectric properties, rheology, and fiber reinforced composites. Prerequisites: CHEM 5353 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7395A. Microwave & Power Device Physics and Materials.**

This course will develop an understanding of basic microwave and power device physics and technology and the advanced materials that are used in today's cutting-edge research & development. The primary focus will be wide bandgap semiconductor materials and devices, and their performance metric versus the industry standard Si-based devices. Prerequisites: MSEC 7401, MSEC 7402 with a B or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7395B. Thin Film Photovoltaic Devices.**

This course is a survey of the Materials Science of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, III-V solar cells, and losses. Prerequisites: MSEC 7401, MSEC 7402 with a B or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**MSEC 7395C. Materials for Sustainable Energy.**

This course introduces principles and applications of sustainable energy materials used for energy generation, conversion, and storage. Topics of study include principles (thermodynamics, kinetics, transport phenomena, equivalent circuits, catalysis, and electrochemistry) and selection and performance criteria important for applications including batteries, supercapacitors, fuel cells, electrolyzers, dielectrics, biomass, and piezoelectrics. Prerequisites: MSEC 7401 and MSEC 7402 with grades of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7395D. Polymer Characterization and Processing.**

This course will cover the concepts critical to the characterization and processing of organic polymers. Topics critical to characterization will include molecular weight determination, thermo/mechanical characterization, X-ray scattering, and polymer spectroscopy. Processing topics will include polymer rheology, principles of polymer processing, solution processing, and extrusion. Prerequisites: MSEC 7370 or CHEM 5351 or CHEM 4351 with grades of B or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MSEC 7399. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Admission into candidacy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7401. Fundamental Materials Science and Engineering.**

Fundamental Materials Science and Engineering (4-0). Fundamentals of chemical kinetics, physical properties, and continuum mechanics will be discussed. Topics include electronic and atomic structure of solids, structure of crystalline materials, structural imperfections, fundamental thermodynamic and kinetic principles and equations for closed and open systems, statistical models, phase diagrams, diffusion, phase transformations, conservation laws, and continuum kinematics. Prerequisite: Three-week Business Boot Camp or equivalent and Corequisite: MSEC 7312 or equivalent

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7402. Advanced Materials Science and Engineering Concepts.**

Fundamentals of quantum mechanics, physics of solid state, and physical electronics and photonics for advanced materials will be discussed. Topics will include quantum basis for properties of solids, lattice vibration, free electron model for magnetism, semiconductors, nanostructures and mesoscopic phenomena, superconductivity, and recent advances in new types of materials. Corequisite: MSEC 7315 or equivalent

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MSEC 7599. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7699. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Admission into candidacy

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MSEC 7999. Dissertation.**

Original research and writing in Materials Science, Engineering, and Commercialization, is to be accomplished under direct supervision of the PhD Research Advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), progress (PR), no-credit (F) basis. Repeatable for credit. Prerequisite: Acceptance into candidacy

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Mathematics (MATH)

**MATH 1300. Elementary Algebra.**

A course to remediate and review basic academic skills in mathematics, including number concepts, computation, elementary algebra, geometry and mathematical reasoning. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial|Lab Required

**Grade Mode:** Developmental

**MATH 1311. Intermediate Algebra.**

A preparatory course for college algebra. Topics include linear equations and inequalities, rational expressions, exponents and radicals, quadratics and word problems. This course is designed for students who have graduated from high school with no more than the minimum mathematics requirements or for students who have been away from mathematics for a number of years. Credit earned for this course does not count toward any degree offered by the university. Prerequisite: MATH 1300 with a grade of CR, ACT Mathematics score of 15 or more, SAT Mathematics score of 400 or more, Accuplacer College Mathematics score of 40 or more, or Compass Algebra score of 35 or more

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/Remedial|Lab Required

**Grade Mode:** Developmental

**MATH 1312. College Statistics and Algebra.**

A course covering linear and quadratic equations, inequalities, functions and their graphs, logarithms, systems of equations, and applications of mathematics. Special emphasis on statistical concepts including linear and quadratic regression, distributions confidence intervals, & hypothesis testing. This course is not intended to substitute for MATH 1315 as a prerequisite. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1342

**MATH 1315. College Algebra.**

A course covering linear and quadratic equations, inequalities, word problems, functions, logarithms, systems of equations and other college algebra topics as time permits. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1314

**MATH 1316. Survey of Contemporary Mathematics.**

(MATH 1332) A study of the uses of mathematics in society today. Emphasis is on concepts rather than technical details. May not be used as a prerequisite for any other mathematics course. Prerequisite: College Readiness in Mathematics according to TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1332

**MATH 1317. Plane Trigonometry.**

A course covering trigonometric functions, right triangles, radian measure, graphs of trigonometric functions, trigonometric identities, including multiple and half-angle identities, inverse trigonometric functions, trigonometric equations, oblique triangles, and complex numbers. Prerequisite: MATH 1315 with a grade of C or higher, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1316

**MATH 1319. Mathematics for Business and Economics I.**

Topics from college algebra and finite mathematics which apply to business and economics including applications of equations and inequalities, simple and compound interest and annuities. Prerequisite: College Readiness in Mathematics according to the TSI regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1324

**MATH 1329. Mathematics for Business and Economics II.**

Topics from finite mathematics and elementary differential calculus which apply to business and economics. Prerequisite: MATH 1315 or 1319 with a grade of C or higher, ACT Mathematics score of 27 or more, SAT Mathematics score of 580 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 1325

**MATH 2311. Principles of Mathematics I.**

Logical deductive reasoning, number theory, a rational development of the real numbers with the associated number structures and algorithms for the fundamental operations, including historical, philosophical and cultural significance. Prerequisite: MATH 1315 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1350

**MATH 2312. Informal Geometry.**

Geometric measuring. Euclidean Geometry, and topics associated with informal geometry, including historical, philosophical, and cultural significance. Prerequisite: MATH 2311 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1351

**MATH 2321. Calculus for Life Sciences I.**

This course is designed to serve the needs of students in the life sciences. Topics will include: graphs, derivatives, exponents and logarithms, scientific notation, sequences, summation, and applications. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020

**Grade Mode:** Standard Letter

**TCCN:** MATH 2313

**MATH 2328. Elementary Statistics.**

This course is an algebra-based introduction to descriptive statistics, random sampling, design of experiments, probability and the Central Limit Theorem. Inferential statistics topics include the foundational concepts for confidence intervals and hypothesis testing for simple experiments. Prerequisites: MATH 1315 with a grade of "C" or higher, MATH 2321 with a grade of "D" or higher, MATH 2417 with a grade of "D" or higher, MATH 2471 with a grade of "D" or higher, ACT Mathematics score of 24 or more or SAT Mathematics score of 520 or more

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 1342

**MATH 2331. Calculus for Life Science II.**

Topics in this course will include: trigonometric functions, probability, integral calculus, differential equations, and applications. Prerequisites: MATH 2321 with a grade of "C" or higher, MATH 2471 with a grade of "D" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 2358. Discrete Mathematics I.**

This course is a study of discrete mathematical structures that are commonly encountered in computing hardware and software. Prerequisites: MATH 1315 with a grade of "C" or higher, MATH 2417 with a grade of "D" or higher, or MATH 2471 with a grade of "D" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MATH 2305

**MATH 2417. Pre-Calculus Mathematics.**

A survey of functions, trigonometry and analytic geometry to prepare students for calculus. Prerequisite: MATH 1315 with a grade of C or higher, ACT Mathematics score of 24 or more, SAT Mathematics score of 520 or more, Accuplacer College Mathematics score of 86 or more, or Compass College Algebra score of 46 or more  
**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2412

**MATH 2471. Calculus I.**

This is the first course in differential and integral calculus which stresses limits as well as the applications of calculus to the problems of science. Prerequisites: MATH 2417 with a grade of C or higher, ACT Mathematics score of 27 or more, SAT Mathematics score of 580 or more, Accuplacer College Mathematics score of 103 or more, Compass Trigonometry score of 46 or more  
**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Mathematics Core 020|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2413

**MATH 2472. Calculus II.**

A continuation of differential and integral calculus including methods of integration, sequences and series, and introduction to partial derivatives. Prerequisite: MATH 2471 with a grade of "C" or higher  
**4 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** MATH 2414

**MATH 3305. Introduction to Probability and Statistics.**

Basic probability models, generating functions and conditional probability, also discrete and continuous, univariate and bivariate distributions of random variables. Concepts of estimation, tests of hypothesis and statistical inference. Prerequisite: MATH 2472 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3315. Modern Geometry.**

Modern geometry with an emphasis on the triangle, circle, plane and Euclidian geometry, an historical aspects will be integrated into the course. May not be applied toward a minor in mathematics. Prerequisites: MATH 2321 or MATH 2471 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3323. Differential Equations.**

A course covering solutions to the more common types of ordinary differential equations, especially those of first and second order, with emphasis on geometrical and physical interpretations. Prerequisite: MATH 2472 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3325. Number Systems.**

Algebraic construction of the natural numbers. Covers the basic vocabulary and proof techniques of abstract algebra, and the structural properties of the natural numbers, integers, rational, real and complex number systems. Prerequisite or Co-requisite: MATH 2471  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3330. Introduction to Advanced Mathematics.**

An introduction to the theory of sets, relations, functions, finite and infinite sets, and other selected topics. Algebraic structure and topological properties of Euclidean Space, and an introduction to metric spaces. Prerequisite: MATH2472 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3348. Deterministic Operations Research.**

This course provides a broad overview of deterministic operations research techniques. Linear programming will be covered including the simplex method, duality and sensitivity analysis. Further selected topics are from integer programming, dynamic programming, scheduling models, game theory, and associated topics. Prerequisite: MATH 2472 with a grade of C or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3373. Calculus III.**

A course covering sequences and series, vectors, functions of several variables, partial derivatives, multiple integrals, line and surface integrals, and applications. Prerequisite: MATH 2472 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3375. Engineering Mechanics.**

A course covering statics, using a vector approach to mechanics. The course is designed to satisfy the requirements of engineering Colleges. This course cannot be used to satisfy the requirements of Engineering degrees. Prerequisite: PHYS 1430. Prerequisite or Co-requisite: MATH 2472  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3377. Linear Algebra.**

An introductory course in linear algebra covering vector spaces, linear transformation, matrices, systems of linear equations, and inner product spaces. Prerequisite: MATH 2472 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3380. Analysis I.**

A course covering the introduction to the theory of real functions. Topics include limits, continuity and derivatives and associated topics. Prerequisite: MATH 3330 with a grade of "C" or higher  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3383. Numerical Analysis I.**

This course focuses on basic numerical methods in mathematics to the solution of functional problems in fields such as engineering and applied sciences. This course covers instructions in computer arithmetic, solutions of equations, interpolation, numerical differentiation/integration, and applications to scientific and industrial applications.

Prerequisite: MATH 2472 with grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 3398. Discrete Mathematics II.**

A continuation of discrete Mathematics I. Prerequisite: MATH 2358 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4302. Principles of Mathematics II.**

Algebraic reasoning and probability with selected topics from quantitative reasoning, measurement, statistics, and geometry are integrated with middle school pedagogical practices such as inquiry learning and use of technology. Appropriate correlated lessons, writing components, and culturally responsive teaching are incorporated.

Prerequisite: MATH 2312 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4303. Capstone Mathematics for Middle School Teachers.**

A rigorous, integrated, analytical perspective of mathematical topics; quantitative reasoning, geometry and measurement, probability and statistics, number theory and algebraic reasoning. May not be applied towards a mathematics minor. Must be taken before student teaching.

Prerequisites: Math 2331 or 2472 and Math 3315 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4304. Capstone Mathematics for Secondary Teachers (of Mathematics).**

Basic concepts underlying algebra, geometry, trigonometry, and calculus taught from an advanced standpoint, including historical, philosophical, and cultural significance. May not be applied toward a minor in mathematics. Must be taken before student teaching. Prerequisite:

MATH 3315 and MATH 2331 or MATH 2472 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4305. Probability and Statistics.**

A course covering sample spaces, probability of events, binomial and multinomial distributions, random variables, normal approximations, statistical inference, and applications. Prerequisite: MATH 3305 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4306. Fourier Series and Boundary Value Problems.**

Advanced solution methods for differential equations; partial differential equations; series approximations, Fourier series; boundary value problems typical of scientific applications. Prerequisite: MATH 3323 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4307. Modern Algebra.**

A course covering elementary set theory, structures, functions, and concepts of modern algebra. Prerequisites: MATH 3330 with a grade of "C" or higher and MATH 3325 or 3377 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4311. Introduction to the History of Mathematics.**

A survey of the development of major mathematical topics, including geometry, algebra, calculus, and advanced mathematics. Philosophical and cultural aspects will be integrated with the structure, theorems, and applications of mathematics. May not be applied toward a minor in mathematics. Prerequisite: MATH 3315 with a grade of "C" or higher and MATH 2331 or MATH 2472 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4315. Analysis II.**

A continuation of MATH 3380. Topics include integration, series and sequences of functions and associated topics. Prerequisite: MATH 3380 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4330. General Topology.**

Topics include introductory treatment of convergence, continuity, compactness, connectedness and fixed points in topological spaces with special emphasis on metric spaces. Prerequisite: MATH 3330 or MATH 3380 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 4336. Studies in Applied Mathematics.**

Selected topics including Laplace transforms, complex variables, advanced calculus for applications, calculus of variations, integral equations, intermediate differential equations, vector analysis, etc. May be repeated once for credit with a different topic. Prerequisite: Consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MATH 4350. Introduction to Combinatorics.**

This course introduces fundamental concepts and results in combinatorics such as counting techniques, binomial coefficients, and recurrence relations; and applications in different fields such as complexity of algorithms and graph theory. Mathematical proofs are an essential part of this course. Prerequisite: MATH 2472 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 4382. The Literature and Modern History of Mathematics and Its Applications.**

This course will focus on mathematical articles in recent journals. The articles will be re-written so that the proofs and comments are more easily understood by the casual reader. This embellishment of journal articles will take place in class with the class participating, in groups for outside work and as individual assignments. May not be applied toward a minor in mathematics. Prerequisites: A grade of "C" or higher in two of these three: MATH 3380, MATH 4307, or MATH 4330. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MATH 4383. Numerical Analysis II.**

This course focuses on a broad range of mathematical and computational methods in modeling, analysis, and simulation of scientific and engineering problems. This course covers instructions in numerical analysis, approximation, optimization, differential equations, scientific computation, and applications to scientific and industrial topics.

Prerequisites: MATH 3383 and MATH 3323 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5111. Graduate Assistant Training.**

This course is concerned with techniques used in the teaching of mathematics. This course is required as a condition of employment for graduate teaching and instructional assistants. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5301. Partial Differential Equations.**

Theory and application of partial differential equations; derivation of the differential equation; use of vector and Tensor methods; equations of the first order; wave equations; vibrations and normal functions; Fourier series and integral; Cauchy's methods, initial data; methods of Green; potentials; boundary problems; methods of Riemann-Volterra; characteristics. Prerequisites: MATH 3323 and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5303. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress. Cannot be used on a degree plan for M.S. degree. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5304. Topics in Mathematics for the Secondary Teacher.**

A study of the current trends and topics found in the secondary school mathematics curriculum with the goal of improving the mathematical background of the secondary teacher. Course content will be flexible and topics will be selected on the basis of student needs and interests. Cannot be used on degree plan for M.S. degree. Prerequisite: A grade of C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5305. Advanced Course in Probability and Statistics.**

Advanced topics in probability and statistics. May be repeated once with different emphasis for additional credit. Prerequisite: MATH 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5306. Ring Theory.**

Prerequisite: A grade of at least a "C" in MATH 4307 or a grade of at least a "B" in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5307. Modern Algebra.**

Topics in modern algebra. Material will be adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5311. Foundations of Differential Equations.**

A critical study of the foundations of derivation equations, operator spaces, and such basic topics. Recent developments in this field will be investigated and independent investigation will be encouraged. Prerequisite: A grade of at least a C in MATH 3373 and either 3380 or 5382

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5312. Functions of a Complex Variable.**

Modern developments in the field of a complex variable. Prerequisite: A grade of at least a C in MATH 3373; either 3380 or 5382; and 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5313. Field Theory.**

Topics in field theory, separable extensions, and Galois Theory. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MATH 5314. Number Theory.**

Topics in algebra selected from quadratic forms, elementary number theory, algebraic or analytic number theory, with material adapted to the needs of the class. Prerequisite: A grade of at least a C in MATH 4307 or a grade of at least a B in MATH 5384

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5317. Problems in Advanced Mathematics.**

Open to graduate students on an individual basis by arrangement with the mathematics department. A considerable degree of mathematical maturity is required. May be repeated with different emphasis. This course does not count toward any degree in the Department of Mathematics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 5319. The Theory of Integration.**

A course in the theory of integration with special emphasis on the Lebesgue integrals. A course in the theory of real variables, with a knowledge of point set theory, is desirable as a background for this course. A considerable amount of mathematical maturity is required. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5329. General Topology.**

Point-set topology with an emphasis on general topological spaces; separation axioms, connectivity, the metrization theorem, and the C-W complexes. Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5331. Metric Spaces.**

Point-set topology with an emphasis on metric spaces and compactness but including a brief introduction to general topological spaces.

Prerequisite: A grade of at least a C in MATH 4330 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5336. Studies in Applied Mathematics.**

Topics selected from optimization and control theory, numerical analysis, calculus of variations, boundary value problems, special functions, or tensor analysis. May be repeated with different emphasis for additional credit. Prerequisites: Six hours of advanced mathematics pertinent to topic and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5340. Scientific Computation.**

This course will involve the analysis of algorithms from science and mathematics, and the implementation of these algorithms using a computer algebra system. Symbolic numerical and graphical techniques will be studied. Applications will be drawn from science, engineering, and mathematics. Prerequisite: MATH 3323 or consent of instructor

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MATH 5345. Regression Analysis.**

This course introduces formulation and statistical methodologies for simple and multiple regression, assessment of model fit, model design, and criteria for selection of optimal regression models. Students will develop skills with the use of statistical packages and the writing of reports analyzing a variety of real-world data. Prerequisite: MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5350. Combinatorics.**

This course, covers permutations, combinations, Stirling numbers, chromatic numbers, Ramsey numbers, generating functions, Polya theory, Latin squares and random block design. Prerequisite: MATH 3398 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5355. Applied and Algorithmic Graph Theory.**

This course is designed to emphasize the close tie between the theoretical and algorithmic aspects. The topics may include basic concepts such as connectivity, trees, planarity, coloring of graphs, matchings, and networks. It also covers many algorithms such as Max-flow Min-cut algorithm, maximum matching algorithm, and optimization algorithms for facility location problems in networks. Prerequisite: MATH 5388 or MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5358. Applied Discrete Mathematics.**

Boolean algebra, counting techniques, discrete probability, graph theory, and related discrete mathematical structures that are commonly encountered in computer science. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5360. Mathematical Modeling.**

This course introduces the process and techniques of mathematical modeling. It covers a variety of application areas from the natural sciences. Emphasis is placed on deterministic systems, stochastic models, and diffusion. Prerequisite: MATH 3373, MATH 3323, and MATH 5301, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5373. Theory of Functions of Real Variables.**

This course will discuss those topics that will enable the student to obtain a better grasp of the fundamental concepts of the calculus of real variables and the more recent developments of this analysis. Prerequisite: A grade of at least a C in MATH 4315 or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5374. Numerical Linear Algebra.**

This course introduces tools that mathematical scientists use with vectors and matrices. Applications include least squares and eigenvalue problems, and systems of equations from applied mathematics. The stability of algorithms to perturbations are considered. Theory is balanced with numerically implementing algorithms, in particular for iterative methods for large, sparse systems. Prerequisite: MATH 3377 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5376A. Design and Analysis of Experiments.**

This course introduces fundamental concepts in the design of experiments, justification of linear models, randomization and principles of blocking. It also discusses the construction and analysis of basic designs including fractional replication, composite designs, factorial designs, and incomplete block designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5376B. Analysis of Variance.**

This course introduces basic methods, one-way, two-way ANOVA procedures, and multifactor ANOVA designs. Prerequisite: Approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 5381. Foundations of Set Theory.**

A formal study of the theory of sets, relations, functions, finite and infinite sets, set operations and other selected topics. This course will also train the student in the understanding of mathematical logic and the writing of proofs. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5382. Foundation of Real Analysis.**

A course covering the foundations of mathematical analysis. Topics include: real numbers, sequences, series, and limits and continuity of functions. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5384. Geometric Approach to Abstract Algebra.**

Definitions and elementary properties of groups, rings, integral domains, fields and vector spaces with great emphasis on the rings of integers, rational numbers, complex numbers, polynomials, and the interplay between algebra and geometry. Prerequisite: MATH 5381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5386. Knots and Surfaces, An Introduction to Low-Dimensional Topology.**

Knot polynomials and other knot invariants. The topological classification of surfaces and topological invariants of surfaces. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5388. Discrete Mathematics.**

This course covers topics from: basic and advanced techniques of counting, recurrence relations, discrete probability and statistics, and applications of graph theory. Prerequisites: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5390. Statistics.**

This course will cover not only some of the basic statistical ideas and techniques but also the mathematical and probabilistic underpinnings of these techniques with an emphasis on simulations and modeling. The planning, conducting, analysis, and reporting of experimental data will also be covered. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5392. Survey of Geometries.**

A study of topics in geometry including geometrical transformations, the geometry fractals, projective geometry, Euclidean geometry, and non-Euclidean geometry. Prerequisite: A grade of at least C in MATH 2472

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5393. Numerical Optimization.**

This course focuses on optimization methods for a broad range of applications, such as engineering and applied sciences. Subjects are the basic theory of optimization, numerical algorithms to locate points satisfying optimality conditions and to analyze the convergence properties. Prerequisites: MATH 2472, MATH 3377 and MATH 3383, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Mathematics 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7111. Seminar in Teaching.**

Seminar on individual study projects concerned with selected problems in the teaching of mathematics. This course does not count for degree credit. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MATH 7187. Seminar in Mathematics.**

Students are required to attend weekly research seminars in mathematics and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7188. Seminar in Mathematics Education.**

Students are required to attend weekly research seminars in Mathematics Education and to give at least one research presentation in the seminar during the semester. This course is repeatable for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7199A. Dissertation.**

Original research and writing in Mathematics Education to be accomplished under direct supervision of the dissertation advisor. While conducting dissertation research and writing, students must be continuously enrolled each long semester. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7299A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7301. Studies in Mathematics.**

This course provides basic foundations in Mathematics for students entering the doctoral program in Mathematics Education. This course may be repeated, but the course does not earn graduate degree credit and cannot be used for degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**MATH 7302. History of Mathematics.**

A study of the development of mathematics and of the accomplishments of men and women who contributed to its progress

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7303. Analysis I.**

This course covers foundations of modern analysis. Topics include: sequences,  $\text{LimSup}$ ,  $\text{LimInf}$ , Sigma Algebras of sets that include open and closed sets, sequences of functions, pointwise and uniform convergence, lower and upper semi-continuity, Borel sets, outer measure, and Lebesgue measure. Prerequisite: MATH 4315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7306. Current Research in Math Education.**

This course surveys the various current social, political, and economic trends in local, state, national, and international settings that are related to research in Mathematics Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7307. Algebra I.**

Applications of Algebra and topics in modern algebra, including permutation groups, symmetry groups, Sylow theorems, and select topics from Ring Theory. Prerequisite: MATH 4307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7309. Topology I.**

A course in point-set topology emphasizing topological spaces, continuous functions, connectedness, compactness, countability, separability, metrizability, CW-complexes, simplicial complexes, nerves, and dimension theory. Prerequisite: MATH 4330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7313. Analysis II.**

This course covers the theory of integration with special emphasis on Lebesgue integrals. Topics include: Lebesgue integral, Bounded Convergence theorem, differentiation and integration, absolute continuity, and  $L_p$  spaces. Prerequisite: Math 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7317. Algebra II.**

A study of the important algebraic structures of rings and fields. Topics covered include rings, ideals, modules, polynomial rings, Euclidean algorithm, finite fields, and field extensions. Topics also include an introduction to Galois Theory with an emphasis on the geometric applications. Prerequisite: MATH 7307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7319. Topology II: Algebraic Topology.**

This course covers the fundamental concepts and tools of algebraic topology. Topics include the fundamental group, covering spaces, homotopy type, the higher homotopy groups, singular homology theory, and the computation of homology groups via exact sequences and applications. Prerequisite: MATH 7307 and MATH 7309

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7321. Graph Theory.**

Topics in this course include trees, connectivity of graphs, Eulerian graphs, Hamiltonian graphs, planar graphs, graph coloring, matchings, factorizations, digraphs, networks, and network flow problems. Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7324. Curriculum Design & Analysis.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques that are related to curriculum design in Mathematics Education for grade levels P-16

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7325. Statistics 1.**

A study of the mathematical and probabilistic underpinnings of the techniques used in statistical inference. Topics covered include sampling, sampling distributions, confidence intervals, and hypothesis testing with an emphasis on both simulations and derivations.

Prerequisite: Math 2321, Math 3305

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7328. Instructional Techniques & Assessments.**

This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques of instruction in Mathematics Education and the related assessment procedures for each for grade levels P-20

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7331. Combinatorics.**

This course is a study of fundamental principles of combinatorics. Topics include: permutations and combinations, the Pigeonhole principle, the principle of inclusion-exclusion, binomial and multinomial theorems, special counting sequences, partitions, posets, extremal set theory, generating functions, recurrence relations, and the Polya theory of counting. Prerequisite: MATH 3398

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7335. Statistics II: Linear Modeling.**

A study of the formulation and statistical methodologies for fitting linear models. Topics include the general linear hypothesis, least-squares estimation, Gauss-Markov theorem, assessment of model fit, effects of departures from assumptions, model design, and criteria for selection of optimal regression models. Prerequisite: MATH 3377 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7346. Quantitative Research Analysis in Mathematics Education.**

This course surveys the various research techniques used in quantitative analysis for mathematics education and covers topics such as experimental design, statistical analysis, and use of appropriate design methodologies to achieve the strongest possible evidence to support or refute a knowledge claim. Prerequisite: MATH 7306 and MATH 7325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7356A. Advanced Quantitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in quantitative research. Prerequisite: MATH 7346

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356B. Advanced Qualitative Research.**

This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in qualitative research. Prerequisite: ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7356C. Action Research in Mathematics Education.**

This course examines underlying theory and issues in action research model and the development of action research projects. Prerequisites: MATH 7346 or ED 7352

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7361. Seminar in Advanced Mathematics.**

Material in course will vary with the interest of students and faculty. A detailed study of subject matter may be chosen from advanced areas of analysis; algebra; topology and geometry; applied mathematics; and probability and statistics. This course is repeatable for credit when subject matter varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7366A. Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors).**

This course examines how to develop and teach post-secondary students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisites: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366B. Teaching K-12 Students (Elementary, Middle School, and High School).**

This course examines how to develop and teach K-12 students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366C. Teaching Teachers (In-Service; Pre-Service).**

This course examines how to prepare teachers of mathematics. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366D. Teaching Specialized Content.**

This course will be an in-depth study of a specialized content area in mathematics with an emphasis on teaching. The specific content area will vary by instructor. Examples include Euclidean Simplex Geometry and Discrete Probability Spaces with Implications for Public School Curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7366E. Developmental Mathematics Curriculum.**

This course surveys the research, development, and evaluation of the scope and sequence of developmental mathematics curriculum. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7371A. Advanced Graph Theory.**

Topics in this course include Turan's problems, Ramsey theory, random graph theory, extremal graph theory, algebraic graph theory, domination of graphs, distance problems, and applications. Prerequisite: MATH 7321

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371B. Advanced Combinatorics.**

Topics in this course include Block designs, Latin squares, combinatorial optimization problems, coding theory, matroids, difference sets, and finite geometry. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371C. Combinatorial Number Theory.**

A study of fundamental techniques in combinatorial number theory.

Topics will include Waring's problem, additive number theory, and probabilistic methods in number theory. Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371D. Discrete Optimization.**

A study of some fundamental techniques in discrete optimization. Topics include discrete optimization, linear programming, integer programming, integer nonlinear programming, dynamic programming, location problem, scheduling problem, transportation problem, postman problem, traveling salesman problem, matroids, and NP-completeness. Prerequisites:

MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371E. Algorithms and Complexity.**

A study of some fundamental concepts of computability and complexity.

Topics include polynomially bounded problems, NP-complete problems, exponentially hard problems, undecidable problems, and reducibility.

Prerequisite: MATH 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371F. Probabilistic Methods in Discrete Mathematics.**

A study of some fundamental probabilistic techniques used to solve problems in graph theory, combinatorics, combinatorial number theory, combinatorial geometry, and algorithm. Topics include linearity of expectation, alterations, second moment, local lemma, correlation inequalities, martingales, Poisson paradigm, and pseudo-randomness.

Prerequisites: MATH 7321 and 7331

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371G. Applied Discrete Mathematics.**

This course introduces fundamental concepts in logic, Boolean algebra, and binomial coefficients; and applications in different fields such as complexity of algorithms and network theory. Prerequisites: MATH 2472 and MATH 4307 with a grade of "C" or higher, or with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7371H. Combinatorial Networks.**

Combinatorial Networks is an area of study of certain types of networks using combinatorial methods extensively. This course introduces fundamental basics as well as the latest development in this area of research. Prerequisite: MATH 5307/7307 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375C. Time Series Analysis.**

A study of the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7375D. Advanced linear Modeling.**

The course provides an extension of regression methodology to more general settings where standard assumptions for ordinary least squares are violated. Topics include generalized least squares, robust regression, bootstrap, regression in the presence of autocorrelated errors, generalized linear models, and logistic and Poisson regression.

Prerequisite: MATH 7335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378A. Problem Solving, Reasoning, and Proof.**

A study of the fundamental concepts of problem solving, logic, set theory, and mathematical proof and applications of these concepts in mathematics curriculum for grades P-20. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**MATH 7378B. Connecting and Communicating Math.**

This course examines one of the basic principles involved in mathematics education: Connecting and Communicating Mathematics. This fundamental theme will be reviewed, researched, and discussed.

Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378C. Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration).**

This course examines the basic principles involved in mathematics education. The process of representing fundamental mathematical ideas will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378D. Math Technologies.**

This course examines the basic principles involved in mathematics education: Technology. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MATH 7378E. Developmental Mathematics Perspectives.**

This course examines developmental mathematics-specific strands including technological course support and placement tools/decisions. Issues related to the first mathematics core course required of undergraduates will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7378F. Research on Mathematical Problem Solving in Secondary Schools.**

In this course a careful study is made of elementary techniques for problem solving in a variety of domains, including algebra, number theory, combinatorics, geometry, and logic puzzles. Students will learn these techniques by actually working on a collection of problems in each of these areas. Students will read and examine research about various aspects of problem solving and research in math education that includes both teacher training and student learning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MATH 7385. Independent Study in Mathematics.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of mathematics. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7386. Independent Study in Mathematics Education.**

Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Mathematics Education. Topics vary according to student's needs and demands. Repeatable with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7389. Internship.**

Students will work under the supervision of a faculty member to gain practical knowledge in Mathematics Education. Student experience can come from industry, government agencies, or other sources but must directly apply to furthering knowledge of mathematics education or its application

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MATH 7396. Mathematics Education Research Seminar.**

Collaborative research projects with faculty through identifying an educational issue, reviewing literature, creating a research question, designing a methodology, analyzing data, drawing conclusions, implications, and creating a draft of a publishable paper. Prerequisite: MATH 7356, and (ED 7352 or MATH 7346)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7399A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7599A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7699A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MATH 7999A. Dissertation.**

This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Mathematics for Teacher Education (MTE)

**MTE 5301E. Visual Models for Middle School Mathematics.**

This course uses visual models to motivate understanding of the fundamental concepts underlying middle school mathematics. Pedagogical techniques to engage middle school students will also be addressed including inquiry-based instructional methods utilizing these visual models

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301F. Implementing New Mathematics Curriculum.**

In this course we will investigate the keys to successfully implementing new curriculum. Two main aspects considered are: 1) the mathematical content knowledge required for a new curriculum and 2) how to build a community of practice which provides support during the implementation process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5301G. Mathematics for Teaching.**

A study of the current trends and topics found in the secondary school mathematics curriculum taught from an advance perspective. Course context will be flexible and topics will be selected on the basis of student needs and interests

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5302A. Quantitative Reasoning.**

This course covers current pedagogy, curriculum, and methods related specifically to the teaching of middle school mathematics. Some of the topics explored are curriculum theory, instructional theory, learning theory, problem solving, national and state standards and assessment, discovery learning, assessment methods, manipulative, and technology in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MTE 5311. Quantitative Reasoning.**

This course will focus on numerical reasoning and problem solving with particular attention being placed on strategies for solving problems, methods for mental computation and computational estimation, and algorithmic processes being taught in a studentcentered atmosphere where teachers are free to take risks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5313. Geometry and Measurement.**

This course will focus on using spatial reasoning to investigate the concepts of direction, orientation, shape and structure; using mathematical reasoning to develop and prove geometric relationships; using logical reasoning and proof in relation to the axiomatic structure of geometry; using measurement of geometry concepts to solve real-world problems. 5315 Algebraic Reasoning. (3-0) This course will focus on using algebraic reasoning to

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5315. Algebraic Reasoning.**

This course will focus on using algebraic reasoning to investigate patterns, make generalizations, formulate mathematical models, and make predications; using properties, graphs, and applications of relations and function to analyze, model and solve problems; and making connections among geometric, graphic, numeric and symbolic representation of functions and relations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5317. Math Modeling.**

This course will focus on modeling problems, applying appropriate mathematical analysis and drawing conclusions from the analysis; solving problems recursively, using linear and non-linear functions and using geometry and discrete mathematics to solve problems in Science, Music, and Art. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5319. Concepts of Calculus.**

A first course in differential and integral calculus. The student will explore the slope of secant lines, average velocity, limit, instantaneous velocity, derivative, slope of a curve at a point, area under a graph, integrals, fundamental theorem of calculus, and applications. Prerequisite: MTE 5317 or consent of department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5321. Probability and Statistics.**

This course will deal with using graphical and numerical techniques to explore data, characterize patterns, and describe departures from patterns; designing experiments to solve problems; understanding the theory of probability and its relationship to sampling and statistical inference and its use in making and evaluating predication. Prerequisite: MTE 5315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MTE 5323. Logic and Foundations of Mathematics.**

This course will consist of an introduction to fundamental mathematical structures and techniques of proof. Topics will include: logic, set theory, number theory, relations, and functions. Emphasis will be placed on communication about mathematics and construction of well-reasoned explanations. Prerequisite: MTE 5313 and MTE 5319

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Merchandising and Consumer Studies (MCS)

**MCS 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. No thesis credit is awarded until student has completed MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MCS 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. No thesis credit is awarded until student has completed MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MCS 5301. Research Methods in Merchandising and Consumer Studies.**

This course covers the evaluation of research concepts, methods, and strategies in family and consumer sciences. Topics include the nature of scientific research, sampling, measurement, data collection, data analysis, and evaluation of research reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5302A. Merchandising in the Experience Economy.**

Students will use an interdisciplinary approach and applicable theories to understand consumer demand and the impact on product and service development and transformation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MCS 5302B. Merchandising Strategies in Domestic and International Markets.**

This course will emphasize strategic planning as a result of analysis of current trends in domestic and global markets

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MCS 5302C. Buying, Planning and Allocation.**

This course will examine strategies in buying, planning and allocation in the retail setting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MCS 5303. Sustainable Textiles.**

This course is an in-depth study of the relationship of fibers, fabrics, finishes and textile products end-uses with a particular focus on their impact on sustainability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5330. Merchandising and Consumer Theory and Research.**

Students will learn how to critically evaluate theoretical concepts in merchandising theory, seminal merchandising literature, research, and methodology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5331. Strategic Merchandise Planning.**

Students will synthesize past and present trends to forecast demand for value-added merchandise that satisfies the needs of individuals, families, and communities. Students will strategically analyze and evaluate consumer feedback in the planning process for profitable merchandising enterprises

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5332. Innovation in the Global Market.**

This course addresses how to create value and growth through innovation in new and existing global markets with a focus on identification of theories and models to understand the innovation and consumer adoption process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5333. Global Sourcing and Distribution.**

The critical evaluation and integration of opportunities and challenges encountered in the manufacturing, distribution, and final acquisition of textile and apparel products in the global environment will be examined in this course. Restricted to Merchandising and Consumer Studies majors only or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5336. Culture, Society, and Dress.**

This course will examine social science theories and concepts as they relate to dress, appearance, and the body. Fashion trends and consumer adoption patterns will also be explored using social science theories to analyze consumer behavior and predict future market directions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5341. Ethics in Merchandising and Consumption.**

Students in this course will identify ethical issues that result from consumer-business interaction. Ethical decision-making will be discussed as it impacts consumer well-being, long-term business success and the conventions of acceptable business practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5342. Sustainable Consumer Economy.**

This course is an in-depth study of the role of consumption in the development of sustainable systems including the family, natural resources and economics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MCS 5346. Foundations of Merchandising and Consumer Studies.**

This course will cover the foundations of merchandising and consumer studies. Topics will include consumer decision-making and market behavior, the fashion supply and production systems, textile materials and sourcing, merchandise pricing and effective product management throughout the product life cycle, and fashion promotion. Prerequisite: Graduate Standing. This graduate leveling course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Leveling

**Grade Mode:** Leveling/Assistantships

**MCS 5390. Merchandising and Consumer Studies Practicum.**

This course will provide an opportunity for students to obtain professional knowledge and skills in a site that is associated with merchandising and consumer studies. This is a field-based experience. Requires approval of the Practicum Coordinator. This course is graded on a CR/NC basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MCS 5391. Seminar in Merchandising and Consumer Studies.**

The course is an in-depth study of two or more topics or emerging issues of particular relevance to merchandising and consumer studies professionals. This course may be repeated once with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MCS 5398. Directed Study in Merchandising and Consumer Studies.**

Students will complete individual work with specific guidance from graduate faculty. The work may include participation in research, professional practice, and/or critical review of the scientific literature on topics such as sustainability, consumer education or business ethics. This course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MCS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. Focus is on identification of thesis topic, review of literature, and research design. No thesis credit is awarded until student has completed the thesis in MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MCS 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. No thesis credit is awarded until student has completed MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MCS 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. No thesis credit is awarded until student has completed MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MCS 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. Focus is on data collection, analysis, and writing of thesis. No thesis credit is awarded until student has completed MCS 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Military Science (MS)

**MS 1000. Leadership Laboratory.**

This course concentrates on practical leadership training. Must be taken concurrently with all other MS courses. Repeatable for credit with different emphasis

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MS 1211. Foundations of Officership.**

This course introduces the Army profession and the role of the commissioned officer. It focuses on leadership, ethics and military customs as well as practical skills like physical fitness and stress management. Students must enroll in MS 1000 concurrently

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 1212. Basic Leadership.**

This course is designed to broaden the introduction to the Army and the skills needed to be a successful Army officer. It focuses on leadership, communication and problem solving as well as nutrition and personal development. Students must enroll in MS 1000 concurrently

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 2211. Individual Leadership Studies.**

This course is designed to develop the student's self-confidence, leadership skills and problem solving abilities. It focuses on critical thinking, communication and conflict resolution skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 2212. Leadership and Teamwork.**

This course focuses on self-development guided by group processes. Experiential learning activities are designed to challenge current beliefs, knowledge and skills. This course also provides equivalent preparation for the ROTC Advanced Course and the Leaders Training Course

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 2313. American Military Studies and Battle Analysis.**

This course is designed to study Military History as it applies to the principles of war and current military doctrine. Students will analyze historical battles and lessons learned and apply them to the modern battlefield. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MS 3311. Leadership and Problem Solving I.**

This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 3312. Leadership and Problem Solving II.**

This course is designed to enable a student without prior military experience to rapidly integrate into the cadet battalion and perform successfully. Key elements are introduction to physical fitness, how to plan and conduct training, basic tactical skills and military reasoning

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MS 4311. Leadership and Management.**

This course is designed to help cadets make informed career decisions and it continues their education in Army operation, training management, communications and leadership. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**MS 4312. Officership.**

This course focuses on completing the transition from cadet to lieutenant. It includes a basic foundation of military law, skills and information on leadership and military science, application and demonstration of knowledge and mastery of military skills reasoning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MS 4313. Independent Study in Military Science.**

This course will be designed to meet the needs of the individual student. It will be a directed and closely monitored program targeted at the students' weaknesses/interests. The course will primarily deal with topics pertinent to the military profession; such areas as leadership, management, ethics, law and their application. Course will require week/bi-weekly progress review with instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

## Modern Languages (MODL)

**MODL 1410. Beginning Modern Languages I.**

Introduction to understanding and using a foreign language

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Credit/No Credit

**MODL 1420. Beginning Modern Languages II.**

Continued practice in understanding and using a foreign language

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Credit/No Credit

**MODL 2310. Intermediate Modern Languages I.**

Continued development and review in understanding and using a foreign language

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MODL 2320. Intermediate Modern Languages II.**

More advanced practice in understanding and using a foreign language

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Music (MU)

**MU 1000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals.

Concurrent enrollment with applied lessons required for all music majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Prerequisites or Corequisites: MUSP 1120 or MUSP 1130 or MUSP 1140 or MUSP 1150 or MUSP 1160 or MUSP 1170 or MUSP 1220 or MUSP 1230 or MUSP 1240 or MUSP 1250 or MUSP 1260 or MUSP 1270 or MUSP 1280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 1112. Basic Musicianship.**

A study of music fundamentals: reading rhythms, pitches in bass and treble clefs, spelling, notating, and identifying key signatures, intervals and chords. Prerequisite: Music major status

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 1150. Introduction to Music Technology.**

Introduction to current computer applications in music. Including MIDI and sequencing, notation, internet communication, and digital audio.

Prerequisite: Full major status

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 1180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisite: Full major status in SRT

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 1182. Recording Practicum II.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 1180 Recording Practicum. Prerequisite: MU 1180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 1210. Aural Learning I.**

The course materials from Music Theory I as applied through lessons in singing, playing, and music dictation. Co-requisite: MU 1211

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1216

**MU 1211. Music Theory I.**

Review of music fundamentals including, key signatures, intervals and scales. Spelling and identification of the 4 triad chord-types and the common 5 seventh-chord types. First species counterpoint in 2 voices. Assignments include part-writing and composing with triads in root position and inversion, and analysis of diatonic music. Co-requisite: MU 1210

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1211

**MU 1212. Aural Learning II.**

The course materials from Music Theory II as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 1210, MU 1211 with a grade of "C" or higher. Corequisite: MU 1213

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1217



**MU 1213. Music Theory II.**

Review of diatonic part-writing using triads. Part-writing and analysis of cadences, non-chord tones, 7th chords and secondary-function chords. Composition and analysis of period and sentence phrases. Prerequisites: MU 1210, MU 1211 with a grade of "C" or higher. Corequisite: MU 1212  
**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1212

**MU 1312. Essential Musicianship.**

Detailed instruction in fundamentals of music theory, including but not limited to notation, meters, scales, key signatures, intervals and chords. This course is designed primarily for non-Music majors and Music minors  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1301

**MU 1314. Essential Musicianship II.**

Continued practice of the essential elements of musicianship. Emphasis on analysis and application of song forms, transposition, popular chord symbols, ear training and sight-singing. Prerequisite: MU 1312 with a C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 2000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals. Concurrent enrollment with applied lessons required for all music majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Pre-requisite or Corequisite: MUSP 2120 or MUSP 2130 or MUSP 2140 or MUSP 2150 or MUSP 2160 or MUSP 2170 or MUSP 2220 or MUSP 2230 or MUSP 2240 or MUSP 2250 or MUSP 2260 or MUSP 2270 or MUSP 2280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 2104. Writing About Music.**

Focusing on basic writing skills, research, and the use and documentation of sources. This course centers on the process of writing about music. Besides written exercises, the assignments include the study of such professional writing samples as concert reviews, program abstracts, and research essays. Prerequisite: Full major status in Performance. Pre-requisite or Corequisite: MU 3315 or MU 3316 or MU 3317, with a grade of "C" or higher. (WI)

**1 Credit Hour. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 2123. Foundations of Music.**

Designed to introduce the student to principles of aesthetics and philosophy, and their practical application as related to music. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1104

**MU 2141. Fundamentals of Diction in Singing.**

A basic course in the pronunciation of singing in English, French, Italian, Spanish, and German. Prerequisites: Full major in Vocal Performance and Music Studies in Voice. (MULT)

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2160

**MU 2142. Fundamentals of Diction in Singing II.**

A basic course in the pronunciation of singing in Italian and French combining lecture and laboratory sessions for practical application.

Prerequisite: MU 2141. (MULT)

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MU 2153. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 2180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisites: Full major status in SRT, MU 1182 with a grade of "C" or higher

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 2182. Recording Practicum IV.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 2180 Recording Practicum. Prerequisites: Full major status in SRT, MU 2180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 2253. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 2260. Aural Learning III.**

The course material from Music Theory III as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 1212, MU 1213 with a grade of "C" or higher. Corequisite: MU 2261

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2216

**MU 2261. Music Theory III.**

Review of secondary function chords. Part-writing and analysis of modulations, chromatic chords, and mode mixture. Composition and analysis of binary and ternary forms. Prerequisites: MU 1212, MU 1213 with a grade of "C" or higher. Corequisite: MU 2260

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2211

**MU 2262. Aural Learning IV.**

The course materials from Music Theory IV as applied through lessons in singing, playing, and music dictation. Prerequisites: MU 2260, MU 2261 with a grade of "C" or higher. Corequisite: MU 2263

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2217

**MU 2263. Music Theory IV.**

Review of functional tonality. Analysis of sonata and rondo forms. Part-writing and analysis of enharmonic modulations and ultra-chromaticism. Introduction to set theory, serialism and techniques of 20th and 21st century composition. Composition and analysis of contemporary compositional techniques. Prerequisites: MU 2260, MU 2261 with a grade of "C" or higher or pass by exam. Corequisite: MU 2262

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 2212

**MU 2303. Survey of Music Literature.**

A study through listening to recordings of the characteristic examples of music literature. The aim of this course is to provide a rich background of experience with music in order that theoretical and applied study may be more meaningful. Prerequisites: Full major status or Music minor, sophomore level or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1307

**MU 2310. Guitar Class I.**

An introductory course primarily for the non-music major. This course offers the opportunity to study tuning, hand positions, chords, accompaniment patterns, strumming and introductory music reading

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** MUSI 1303

**MU 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, DAN 2313, or TH 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**MU 2353. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals.

Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all music majors. Pre-requisite or Corequisite: MUSP 3170 or 3220 or MUSP 3230 or MUSP 3240 or MUSP 3250 or MUSP 3260 or MUSP 3270 or MUSP 3280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 3050. Junior Recital.**

Preparation and performance of the junior recital for music performance majors. Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all Music Performance majors. Pre-requisite or Corequisite: MUSP 3170 or MUSP 3220 or MUSP 3230 or MUSP 3250 or MUSP 3260 or MUSP 3270 or MUSP 3280

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisites: Full major status in SRT; MU 2182 with a grade of "C" or higher.

Corequisite: MU 3383

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3182. Recording Practicum VI.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 3180 Recording Practicum. Prerequisites: Full major status in SRT, MU 3180. Corequisite: MU 3384

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3207. Fundamentals of Conducting.**

Requires successful completion of the Upper Level Competency Review in Music Studies

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3208. Choral Conducting I.**

This course covers conducting fundamentals such as beat pattern, baton technique, score reading, cuing, subdivisions, fermatas, and releases.

The class will function as an ensemble and each student will conduct assignments approximately once each week. Requires successful completion of the Upper Level Competency Review to enroll

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3217. Instrumental Conducting.**

An application of the principles of conducting to instrumental music, including score reading and problems of interpretation. Some choral conducting experience will be included. Prerequisite: MU 3207

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MU 3227. Choral Conducting.**

An application of the principles of conducting choral music, including score reading and problems in interpretation. Some instrumental conducting experience will be included. Prerequisite: MU 3208

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3233. Jazz Theory and Improvisation I.**

This course is a study of the musical theory basics used in jazz improvisation and composition, focusing on best practices in its practical application and pedagogy. In addition to a theoretical and applied approach, students will also examine historical and cultural considerations, as they relate to performance. Prerequisites: Bachelor of Music with Jazz concentration or minor, MU 1213 or permission of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3234. Jazz Theory and Improvisation II.**

This course is a continuation of MU 3233 and pays particular attention to developing skills in the use of scales and modes (including major and minor pentatonic scales), modal playing, and jazz nomenclature. Prerequisites: Bachelor of Music with Jazz concentration or minor, MU 3233 or permission of instructor, MUSE 3127

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 3241. A Survey of Instrumental Performance Literature.**

This course is an overview of repertoire for wind bands/orchestras from all musical periods/styles, including music for beginning bands/orchestras to works for collegiate/professional ensembles. There are listening components, score study, review of instrument transpositions, programming, contest preparation and student led wind band/orchestra reading sessions. Prerequisite: MU 2313 with a grade of "C" or higher

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3242. Survey of Choral Performance Literature.**

The course covers detailed consideration of literature of all periods appropriate for choral ensembles and includes discussions on repertoire selection/performance problems peculiar to all ensemble sizes. Assignments give students opportunity to develop their own approach to vocal challenges that face high school and junior high singers, including arranging choral music. Prerequisites: MU 2313, MU 3208, MU 3254. Co-requisite: MU 3227

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3253. Instrumental Performance Ensemble Techniques.**

This course is designed to introduce fundamental principles of effective instrumental music instruction, rehearsal techniques, and administration of secondary school music programs. This course will provide opportunities for students to conduct and rehearse instrumental ensembles, present teaching demonstrations, and conduct independent scholarship projects related to teaching. Prerequisites: Music Studies major, MU 3207, MU 2263, MUSP 3145 or MUSP 3147, MUSP 3155 or MUSP 3157

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3254. Choral Ensemble Techniques.**

This course provides practical experience in developing, teaching and maintaining a successful choral program at the secondary level. Assignments are designed to give students the opportunity to develop approaches to the basic challenges that face high school/middle school choral directors. Students will share ideas and evaluate each other's work. Prerequisites: Music Studies with choral concentration, MU 2263. Co-Requisite: MU 3208

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3263. Marching Band Techniques.**

An examination of the techniques required to program, design, and instruct a successful marching band show. The class will discuss different types of design concepts currently being employed throughout the country, but also to construct and chart those designs. Prerequisite: Full major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3269. Current Trends in Music II.**

A study of melodic and harmonic techniques for keyboard percussion instruments. Sight-reading techniques using Sol-Fa. Survey of the folk music of Europe and America. Prerequisite: MU 3340

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3308. History of Rock.**

A survey of the evolution of rock styles, contributions of important performers, and musical techniques involved in the creation and performance of rock music. The course focuses on the first three decades of rock history

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3310. Guitar Class II.**

Primarily for the non-music major, the course includes the opportunity for development of more advanced techniques in accompaniment, music reading and solo guitar techniques. Prerequisite: MU 2310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3313. Introduction to Fine Arts.**

This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3315. History and Analysis of Music I.**

This course is an intensive chronological study of music from the Medieval through Baroque periods. Students will learn what ideas, forces, and innovations shaped the composers during each period. Students are required to identify/analyze and write about the different styles, genres, and music works of each period. Prerequisites: MU 1212 and MU 2303 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 3316. History and Analysis of Music.**

A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. Prerequisites: MU 2303 and MU 3315 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**MU 3318. World Musics.**

This course equips students with practical and intellectual tools to enhance their enjoyment and understanding of popular, folk and classical music traditions around the globe, (with the exclusion of what is commonly referred to as Western Art Music) and explores how these traditions relate to history, social issues, politics and identity. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**MU 3340. Current Trends in Music I.**

A study of the components of music and their concepts. An emphasis on singing and rhythmic performance skills, and esthetic awareness through listening. Prerequisite: MU 2123

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 3370. Music for the Elementary Classroom.**

Introduction to basic music skills for the elementary classroom teacher. Include practical application and development of strategies and instructional techniques necessary for effective integration of music experiences in the elementary classroom curriculum. Intended for interdisciplinary studies majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3375. History of Jazz.**

Jazz originated in America and has been of great importance in the development of the 20th Century music. Topics will include the structure and history of jazz, the contributions of jazz to contemporary music, and the chronological development of jazz experienced through recordings and live performances. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**MU 3380A. Women in Jazz.**

Overview of jazz history from its New Orleans origins to the present focusing on the contributions of women. Major style periods researched include early jazz/swing, bebop, cool, hard bop, free jazz, jazz fusion, and contemporary trends. Emphasis will be placed on the development of critical listening skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380B. Music and Film.**

This course is an exploration of historical traditions and functions of Hollywood film music. Students will apply music theory and dictation skills to analyze scores and explain how film music's characteristics and associated cultural connotations combine with image to create new meaning. Prerequisites: MU 2262 and MU 2263, with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380C. Rock Harmony.**

Theoretical analysis of popular and rock music incorporating extensive ear training components such as recognition of chords and progressions. Further analysis of the individual stylistic details in rock songs as well as comparison to traditional tonal harmony and form. Pre-requisite: MU 1312 with a C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3380D. History of Blues.**

This course explores the role of the blues in American popular music, tracing the history of the genre from its origins to its influence on rock and other related styles, surveying important recording labels and related figures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 3381. Recording I.**

Introduction to audio recording techniques. Topics include acoustics, electronics, microphones, microphone techniques, loudspeakers, and operating principles of common recording equipment. Prerequisite: MU 1182. Restricted to Sound Recording Technology majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3382. Recording II.**

A continuation of MU 3381. Topics include: operating principles of common recording equipment, fundamentals of analog and digital recording, signal flow, equalization, and sound effects processors. Prerequisite: MU 3381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 3383. Audio Technology: Microphones and Mixing Techniques.**

Principles and practices of microphone and mixing techniques. Prerequisite: MU 3382 with a grade of "C" or higher. Corequisite: MU 3180

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MU 3384. Audio Recording Techniques.**

Audio tape and disc recording and their applications in a variety of settings and genres. Prerequisite: MU 3383 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**MU 4000. Departmental Recital.**

Performance, attendance, and weekly observation of recitals. Concurrent enrollment with applied lessons required for all music majors.

Corequisites: Concurrent enrollment with applied lessons and major ensemble required for all Music majors

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**MU 4050. Senior Recital.**

Preparation and performance of the senior recital. Prerequisite or

Corequisites: MUSP 4170, MUSP 4220, MUSP 4230, MUSP 4240, MUSP 4250, MUSP 4260, MUSP 4270, or MUSP 4280, with a grade of "C" or higher

**0 Credit Hours. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4151. Band Instrument Repair.**

A one-semester course designed to equip the prospective band director with the skills to make basic repairs on the various musical instruments

**1 Credit Hour. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4152. Problems in Music.**

A study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated for credit twice with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4156. Mariachi Arranging.**

This course is a study of Mariachi repertoire and arranging techniques for a Mariachi ensemble. Topics will cover instrument ranges, orchestration techniques, and styles. This course is repeatable for credit three times.

Prerequisites: MU 1210 and MU 1211

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4157. Mariachi Ensemble Teaching Lab.**

This course provides students with the knowledge to become effective directors of Mariachi ensembles within the public school/university systems. Mariachi curriculum/repertoire/rehearsal techniques appropriate to middle school/high school/post-high school ensembles are discussed and applied within the setting of a performing ensemble. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4180. Recording Practicum.**

Independent study in sound recording. Students develop aural and practical skills necessary to produce high quality recordings. May be repeated once with different emphasis for additional credit. Prerequisite: MU 3182

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4182. Recording Practicum VIII.**

Development of aural skills associated with audio production and recording. Continuation of the first semester of MU 4180 Recording Practicum. Prerequisite: MU 4180

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4185. Senior Research Project.**

A study of the student's senior recital literature resulting in a thorough research paper on the theoretical, historical, technical and stylistic aspects of the compositions. Prerequisite or Corequisite: MU 4050, MUSP 4170, MUSP 4220, MUSP 4230, MUSP 4240, MUSP 4250, MUSP 4260, MUSP 4270, or MUSP 4280

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4234. Arranging Techniques for School Music Ensembles.**

This class will introduce the many techniques involved in arranging for a wide variety of school music ensembles. Content will include an examination of the various instrument families, basic manuscript techniques (both manual and computer aided) and various orchestration techniques for voicing and scoring. Prerequisites: Music Studies majors, MU 2263, MU 3207, MUSP 3145 or MUSP 3147, MUSP 3155 or MUSP 3157

**2 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4244. Jazz Theory and Improvisation III.**

This course is a continuation of MU 3234 and explores advanced concepts in jazz theory including symmetrical scales, chord substitutions, re-harmonization, pentatonic and exotic scale forms. Classes will focus on best practices in practical application and pedagogy and also examine historical and cultural considerations related to performance. Prerequisites: Bachelor of Music, MU 3234 or permission of instructor, MUSE 3127

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4245. Jazz Composition and Arranging.**

This course is an in-depth exploration of various commercial writing styles and instrumentations, focusing on Pop, Latin, and Jazz. Students will analyze the writing styles of prolific 20th century Big Band Arrangers, and learn to write music for all types of commercial applications, and styles, for all levels of musicians. Prerequisite: Bachelor of Music, MU 4244 or permission of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MU 4253. Problems in Music.**

Study of one or more problems in music. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music. May be repeated once for credit  
**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4255A. Vocal Pedagogy.**

Developing teaching methods and broader understanding through critical study of vocal techniques. Prerequisite: Performance major with Vocal Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255B. Guitar Pedagogy.**

Developing teaching methods and broader understanding through critical study of guitar techniques. Prerequisite: Performance with Guitar Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MU 4255C. Piano Pedagogy.**

This course will help guide students to become more competent and efficient piano teachers through the study of various teaching methods and broaden their understanding of teaching techniques through critical study of various piano technique resources. Prerequisite: Bachelor of Music with keyboard concentration and MUSP 3230 or MUSP 4230

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255D. Woodwind Pedagogy.**

This course provides students the opportunity to explore the methodology involved in pedagogy of specific woodwind instruments from beginning through advanced levels to prepare them to become more competent and efficient instructors. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3240 or MUSP 4240

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255E. Brass Pedagogy.**

Brass Pedagogy is an intensive study of various instruction styles, skills, and techniques applicable on brass wind instruments. The student will develop instructional methods and a broader knowledge through critical study of instructional and performance techniques. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3250, MUSP 3350, MUSP 4250, or MUSP 4350

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255F. Percussion Pedagogy.**

Percussion pedagogy will familiarize the percussion students with various percussion pedagogical studies on a variety of percussion instruments through research, examination, and a compilation of written reviews of current percussion methods and educational publications. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3170, MUSP 3270, MUSP 4170, or MUSP 4270

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4255G. String Pedagogy.**

This course represents an intensive study of publications concerned with the instructional methodology of bowed stringed instruments and will include practical instructional experience in a private studio setting, as well as in a group setting. Prerequisites: Bachelor of Music with string or instrumental concentration and MUSP 3260 or MUSP 4260

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256A. Vocal Literature.**

Detailed consideration of vocal literature of all periods and voice classifications. Repertoire selection and performance problems peculiar to vocalists are discussed. Prerequisite: Performance with Vocal Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256B. Guitar Literature.**

Detailed consideration of guitar literature from all musical periods. Repertoire selection and performance problems peculiar to guitar performers are discussed. Prerequisite: Performance with Guitar Option major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256C. Piano Literature.**

A study of piano performance literature focusing on various styles, genres, composers and eras. This course may be repeated for credit with a different emphasis. Prerequisite: Performance Major status

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256D. Woodwind Literature.**

Woodwind Literature is a survey of the development of the student's instrument and its literature through a historical perspective stressing a broad knowledge of standard repertoire and styles. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3240 or MUSP 4240

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256E. Brass Literature.**

This survey course covers major aspects of selected solo, chamber, and orchestral music repertoire for brass wind instruments including methods and texts. It will also include directed study on the literature of the student's instrument. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3250 or MUSP 4250

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256F. Percussion Literature.**

Percussion literature will familiarize the percussion student with solo and ensemble literature on a variety of percussion instruments through research, examination, and a compilation of written reviews of published percussion literature. Prerequisites: Bachelor of Music with instrumental concentration and MUSP 3170, MUSP 3270, MUSP 4170, or MUSP 4270

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4256G. String Literature.**

This course encompasses an intensive study of solo and chamber music repertoire from the vantage point of performance practice and rehearsal technique. Specific emphasis will be given to comparisons of stylistic characteristics within the genres. Prerequisites: Bachelor of Music with string or instrumental concentration and MUSP 3260 or MUSP 4260

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 4257. Vocal Pedagogy I: Voice Science.**

This course explores the anatomy/physiology of the human voice, the acoustic properties that govern resonance, vocal health, and the philosophy of singing and teaching. It is designed for Bachelor of Music majors with a concentration in voice. Restricted to Music Studies or Music Performance majors, with a vocal concentration. Co-requisites: MUSP 3220 or MUSP 4220, or by Instructor Permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4258. History of Music in Mexico.**

This course is a study of the musical panorama of Mexico; pre-colonial, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context. It includes research methodology and musicology related to Mexican music

**2 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 4259. Vocal Literature.**

This course is a detailed consideration of vocal literature from approximately 1600 through the 20th century, focusing on different cultures of the world. It covers major composers and developments in the genre. Repertoire selection and performance problems peculiar to the various styles will be discussed. Prerequisites: Bachelor of Music with vocal concentration and MU 2142. Corequisite: MUSP 3220 or MUSP 4220

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4260. Vocal Pedagogy II: Methods.**

This is a comparative study of various pedagogical methods and ideas that covers a wide range of historical and contemporary pedagogy treatises. Students will explore exercises and vocalises for general voice development, peer teaching, and techniques to address/correct specific vocal problems. Prerequisite: MU 4257 with a grade of "B" or better. Co-requisites: MUSP 3220 or MUSP 4220, or by Instructor Permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4280. Senior Research Project.**

A study of the student's senior recital literature resulting in a thorough research paper on the theoretical, historical, technical and stylistic aspects of the compositions. Corequisites: Concurrent enrollment in Senior Recital, applied lessons, and major ensemble. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**MU 4310. Guitar Class III: Rock, Country, Blues.**

Designed primarily for the non-music major. Continued study of advanced techniques including scales, arpeggios, strumming patterns and advanced accompanying styles. Analysis and performance of musical styles including rock, country and blues. Prerequisite: MU 3310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4312. Guitar Class IV: Rock, Country, Blues.**

Designed primarily for the non-music major. Continued study of advanced techniques including soloing techniques, accompaniment techniques. Detailed analysis of performance styles emphasizing the styles of contemporary performers. Prerequisite: MU 4310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4330. Form and Analysis.**

Principles of form and analysis developed through the in-depth application of analytical systems to the musical repertoire through the nineteenth century. Prerequisites: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4332. Contemporary Analytic Techniques.**

Detailed study and analysis of selected compositions from the early twentieth century to the present; analytical projects. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4334. Orchestration.**

Study of the characteristics of individual instruments; writing for various combinations; study of scores of different periods; techniques of instrumentation, arranging, and orchestration; listening to recorded and live performances. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4336. Eighteenth Century Counterpoint.**

A study of 18th century contrapuntal techniques as found in choral preludes, inventions and fugues, among other forms. Prerequisite: MU 2263 or consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4343. Jazz Pedagogy.**

A study of repertoire selection and evaluation, phrasing and articulation, rhythm section techniques, methods of instruction, and review of current teaching styles in American jazz programs, including contest preparation and the teaching of basic improvisation. Prerequisites: MU 2262, MU 2263 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4351. Problems in Music.**

Study of one or more problems in music. Problems chosen may not duplicate the scope of another course offered for credit. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4353. Problems in Music.**

Study of one or more problems in music. Problems chosen may not duplicate the scope of another course offered for credit. The courses are conducted as seminars and are open to students on an individual basis by arrangement with the Director of the School of Music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 4354. Business in Music.**

A preparation of students and future musicians for a career in music. The course will discuss the various career options available to aspiring musicians and the paths to take to pursue these options

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4385. Advanced Audio Recording Techniques.**

Application of theoretical skills in recording, mixing, and editing concert music. Prerequisite: MU 3384. Corequisite: MU 4180

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4386. Internship.**

Practical experience in audio recording under professional supervision.

Provides the opportunity for students to demonstrate professional competencies based on prior theoretical and laboratory experiences.

Prerequisite: SRT majors only

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 4680. Internship in Sound Recording Technology.**

Practical experience in audio recording under professional supervision.

Provides the opportunity for students to demonstrate professional competencies based on prior theoretical and laboratory experiences.

Prerequisite: MU 4385. Capstone course

**6 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5113. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5130A. Writing About Music.**

Focusing on basic writing skills, research, and the use and documentation of sources. Course centers on the process of writing about music. Besides written exercises, the assignments include the study of such professional writing samples as concert reviews, program abstracts, and research essays. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5130B. Diction for Singers.**

An in-depth study of the pronunciation of singing in Italian, German, English, and French incorporating the International Phonetic Alphabet through the use of lecture and laboratory sessions for practical application. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5141. Kodály Level I – Conducting.**

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on conducting folk songs and classical canons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5143. Kodály Level I – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5145. Kodály Level II – Conducting.**

Advanced conducting techniques emphasizing patterns and communication of the character of music. Emphasis on independence of the left and right hands to communicate tempo, dynamics, cues, and character

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5147. Kodály Level II – Materials.**

Examination of song literature appropriate for children with emphasis on folk literature. Students will also explore suitable instrumental literature through performance on the recorder

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5149. Kodály Level III – Conducting.**

Advanced conducting laboratory with application to 2-, 3-, and 4-part choral works

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5151. Kodály Level III – Research and Retrieval.**

Research of international folk music as applied to philosophy as applied to Kodály music education program

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5156. Mariachi Arranging.**

This course is a study of Mariachi repertoire and arranging techniques for a Mariachi ensemble. Topics will cover instrument ranges, orchestration techniques, and styles. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 5157. Mariachi Ensemble Teaching Lab.**

This course provides students with the knowledge to become effective directors of Mariachi ensembles within the public school/university systems. Mariachi curriculum/repertoire/rehearsal techniques appropriate to middle school/high school/post-high school ensembles are discussed and applied within the setting of a performing ensemble. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MU 5182. Practicum in Music Instruction.**

Instruction techniques for teaching and instructional assistants concerning selected problems in the teaching of music in the classroom, private instruction, and ensemble environments. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**MU 5192. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5213. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated with different emphasis for additional credit. Prerequisite: Consent of the graduate advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5230A. Music Theory.**

A study of the materials of counterpoint and harmony as evaluated through listening and analysis of literature, and application through composition. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5230B. Aural Learning.**

Development and application of theory concepts through singing, playing, and dictation. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5240. Kodály Level I – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5242. Kodály Level I – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to kindergarteners and first graders

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5244. Kodály Level II – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on analysis of melodic content: intervals, range, and scales

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5246. Kodály Level II – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to second and third grade children

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5248. Kodály Level III – Musicianship and Sol-fa.**

Development of sight singing and aural skills associated with advanced musicianship. Emphasis on advanced studies in rhythm, counterpoint, and harmony

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5250. Kodály Level III – Pedagogy.**

The teaching of music utilizing an American adaptation of the Kodály approach to music education as applied to upper elementary, junior high, and high school

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5254. Piano Pedagogy I.**

History, methods, and materials of piano pedagogy. Includes the application of technical and musical fundamentals to beginning levels of teaching. Prerequisites: Piano pedagogy or piano performance majors or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MU 5255. Piano Pedagogy II.**

Advanced methods and materials of piano pedagogy. Includes the application of technical and musical fundamentals to intermediate and advanced levels of teaching. Prerequisites: Piano Pedagogy I or instructor's permission

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5310. Music Literature of the Baroque.**

Style characteristics and literature of the music of 1600-1750 with special emphasis on Bach and Handel

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5313. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5314. Survey of Twentieth-Century Music.**

Emphasis on music of the modern period and its development from music of earlier periods. Numerous examples of vocal and instrumental works in both large and small forms are used to illustrate twentieth-century styles and trends

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5315. Music Literature, Middle Ages and Renaissance.**

Historical, stylistic, and analytical study of western art music from about 450 to 1600

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5316. Opera History.**

This course will analyze and evaluate operas selected from the genre's history from the late sixteenth century to the present. Topics include opera historiography; operatic conventions; opera composers, librettists and plots; musical dramaturgy; and cultural context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5317. Independent Study in Music.**

Study of special interest that offers professional improvement and growth in the field of music. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5318. Song Literature.**

This course is an historical survey of the art song, emphasizing Western European and American repertoires. Students will articulate stylistic differences within the art song repertory, use analytical methods appropriate for a variety of text settings, and develop greater proficiency at writing about music

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5320. Music Literature, Viennese Classical.**

Style analysis of music literature from 1750 to 1830 with emphasis on Haydn, Mozart, and Beethoven

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5322. Instrumental Techniques and Materials.**

Evaluation of teaching methods, materials, and literature of wind and string instruments. Prerequisite: Music 3217 or the equivalent of Undergraduate Instrumental Conducting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5323. Vocal Music Education Methods.**

Study of the anatomy of the human voice and evaluation of the scientific data and historical beliefs concerning voice pedagogy with emphasis in teaching voice in the class, private studio, as well as within a variety of choral settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5324. Seminar in Music Curriculum and Methodology.**

Evaluation of teaching methods, learning processes, curriculum, and research in music education as a basis for improving music pedagogy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5325. Research in Music Education I.**

Examination of methodologies, techniques, and procedures for interpreting and conducting research in music education. Relevant studies in music education will be critiqued, with an emphasis on preparation of a research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5326. Research in Music Education II.**

A continuation and culmination of a research project in the field of music education as developed and proposed in MU 5325. Prerequisite: MU 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5328. Foundations of Music Education.**

The cognitive psychology, historical perspective, and philosophical issues that provide the basis for contemporary music education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MU 5329. Psychology of Music.**

This course investigates the psychological foundations of music and examines interdisciplinary approaches to the study of music and the human experience. Topics will include music perception, physiological responses to music, music and the brain, musical attributes, music learning, music therapy, and the measurement of musical behavior  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5330A. History and Analysis of Music.**

A comprehensive musicianship approach to the study of music from the earliest times to the present using techniques of stylistic and structural analysis. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5330B. Advanced Theory.**

Principles of form and analysis, counterpoint, orchestration, and contemporary analytic techniques developed through in-depth study of musical repertoire. This course does not earn graduate degree credit.

Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling|Topics

**Grade Mode:** Leveling/Assistantships

**MU 5331. Vocal Pedagogy I: Voice Science.**

This course explores the anatomy/physiology of the human voice, the acoustic properties that govern resonance, vocal health, and philosophy of singing and teaching. Co-requisites: MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5332. Vocal Pedagogy II: Methods.**

This is a comparative study of various pedagogical methods and ideas, including historical and contemporary treatises. Students will explore exercises and vocalizes for general voice development, address and correct specific vocal problems, and engage in peer teaching.

Prerequisite: MU 5331 with a grade of "B" or better. Co-requisites:

MUSP 5120, MUSP 5220, or MUSP 5320, or permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5334. Introduction to Graduate Study in Music.**

Techniques and materials of research, emphasizing bibliography, library usage, collection, and interpretation of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Time Conflicts Permitted

**Grade Mode:** Standard Letter

**MU 5340. Music Literature, Nineteenth-Century Romantic.**

Music literature of the period from 1830 to 1910 with analysis of styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5341. History of Jazz.**

This course is a chronological survey and historical analysis of the major soloists, ensembles, composers, recordings, and stylistic trends of all major jazz styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5342. Jazz Pedagogy.**

Jazz pedagogy is an in-depth study of the history, methodologies, resources, and techniques of jazz pedagogy and the development of jazz ensemble rehearsal skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5343. Jazz Improvisation.**

This course is a detailed study of the evolution of melodic, harmonic, and rhythmic structures used by jazz improvisers and composers from the 1930s to present day

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5344. Jazz Arranging.**

This course provides a comprehensive study of jazz composition, arranging, and improvisation theory, emphasizing writing for jazz ensembles using harmony, scales, and improvisation in a variety of styles, and providing necessary skills to be a successful jazz or commercial composer/arranger

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5345. Piano Literature I.**

This course is designed to expand first-hand familiarity with the literature for the keyboard from the Baroque to Early Romantic era (Bach to Schumann). It will be divided into five chronological segments, discussing the major composers and their contemporaries. Ten composition genres will be discussed during the course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5346. Piano Literature II.**

This course is designed to expand first-hand familiarity with the literature for the piano, which will be divided into six chronological segments. These segments will discuss the most significant composers and their contemporaries in the 19th and 20th centuries and their major piano compositions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5350. Musical Styles.**

Developing a broader musical understanding through critical listening, technical analyses, and written assignments in various musical styles, including the late classical, romantic, and present eras. Prerequisite: B or higher in MU 5357 or a passing grade on the Graduate Music Theory Placement Exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5351. Introduction to Schenkerian Analysis.**

An introduction to the techniques and methods of music analysis as developed by Heinrich Schenker (1868-1935). This course will cover reductive analysis, structural levels in tonal music, and graphing techniques. Prerequisite: MU 5357 with a grade of "B" or higher, or passing grade on music theory entrance exam

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5352. Foundations of Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the discipline of musicology. Prerequisite: MU 5334 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5353. Ensemble Rehearsal Techniques.**

Course is designed for performance ensemble conductors. Includes supervision, administration, and rehearsal techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5355. Pedagogy of Theory and Comprehensive Musicianship.**

Developing teaching methods and broader understanding through critical study of materials, organization, techniques, and problems of music theory and comprehensive musicianship courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Time Conflicts Permitted  
**Grade Mode:** Standard Letter

**MU 5357. Graduate Music Theory and Musicianship.**

Graduate-level studies in music theory and aural skills. The course covers melody, harmony, counterpoint, form, as well as sight-singing, performing, and dictation. This course does not earn graduate degree credit. Prerequisite: Consent of the graduate music advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from Graduate GPA|Leveling  
**Grade Mode:** Leveling/Assistantships

**MU 5358. Advanced Musicianship.**

This course is designed to develop graduate-level skills in music sight reading, dictation, fundamental keyboard skills, and keyboard harmonization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5359. Post-Tonal Music Analysis.**

This course is the study and application of methodologies and terminology that are used to analyze post-tonal concert music of the 20th and 21st centuries. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5360. Music in the United States.**

A survey of the music and musical development in this country from pre-Columbian times to the present. Folk music, popular music, and jazz will be considered as well as traditional and experimental styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5361. Methods and Methodologies of Music Analysis.**

This course will cover the examination of selected analytical techniques, methods and methodologies, critical approaches, or musical repertoires, including semiotic analysis, computer-assisted music analysis, analysis of thematic processes, functional analysis, phrase structure analysis, as well as category and feature analysis. Prerequisite: MU 5357 with a grade of "B" or better, or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MU 5362. Instrumental Pedagogy I.**

This course explores instrument-specific pedagogy from the beginner through the advanced levels. Students will peruse instrument-specific pedagogical works, solo literature, and articles, and will complete a teaching assignment requiring them to implement pedagogical techniques, diagnose common performance problems, and suggest solutions. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 or MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5363. Instrumental Pedagogy II: Teaching Internship.**

This class provides students with supervised teaching experience. In this capstone course, students will apply pedagogical principles for instruction on their primary instrument in the private lesson setting. Their teaching will be monitored and evaluated by an applied professor throughout the semester. Prerequisite: MU 5362 with a grade of "B" or better. Co-requisites: MUSP 5130 or MUSP 5140 or MUSP 5150 or MUSP 5160 or MUSP 5170 or MUSP 5230 or MUSP 5240 or MUSP 5250 or MUSP 5260 or MUSP 5270 or MUSP 5330 or MUSP 5340 or MUSP 5350 or MUSP 5360 or MUSP 5370, or permission of the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5364. Intelligent Music Teaching.**

This course focuses on fundamental philosophical principles of effective instrumental music instruction and includes application of those principles in teaching. Students will develop a realistic perspective of their strengths and weaknesses as a developing professional and will develop business skills necessary to create a successful private lesson studio

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MU 5365. Computing in Music.**

Development of concepts and skills related to current computer technology in music. Exploration and use of computer software, MIDI, and other productivity tools for application to music education, music administration, music research, and music composition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5366. Salsa Arranging.**

Analysis and arranging music for a Salsa ensemble. Topics will cover instrument ranges, orchestration techniques, and styles

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5367. History of Music in the Caribbean.**

This course is a study of the musical panorama of the Spanish-speaking Caribbean; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, includes coverage of the scope and methods of research in the area of Caribbean music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5368. History of Music in Mexico.**

This course is a study of the musical panorama of Mexico; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are discussed in historical, socio-political, and stylistic context, including coverage of the scope and methods of research in the area of Mexican music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5369. History of Music in Latin America.**

This course is a study of the musical panorama of Latin America; Pre-Columbian, colonial, folk, urban, academic, and transnational genres are introduced and discussed in historical, socio-political, and stylistic context. It also includes an introduction to the scope and methods of research in Latin American music studies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MU 5375J. Foundations of Ethnomusicology/Musicology.**

This course is an introduction to the concepts, methodologies, and scholarly trends central to the disciplines of ethnomusicology and musicology. Prerequisite: MU 5334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**MU 5375L. Techniques of Contemporary Music.**

This course surveys a cross-section of important technical innovations and developments in twentieth-century music, with special focus on music since 1945. Students will read documents outlining aesthetics, analyze music written in a variety of styles, write analytical papers, and using a variety of techniques, compose exercises. Enrollment requires a passing grade on the Graduate Music Theory Placement Exam or Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**MU 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Music 5399B. Students working toward the M.M. degree with a thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**MU 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Cannot be taken unless a Thesis Proposal has been submitted. Students working toward the M.M. with thesis are expected to enroll in thesis each semester in which faculty supervision is received. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Music Ensemble (MUSE)

**MUSE 3026. Student Chamber Music.**

Small student organized and led performing groups coached by area faculty as necessary

**0 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3027. Jazz Seminar.**

Jazz faculty and guest artists meet with Jazz Performance majors to address topics outside the scope of the student's other daily coursework. The seminar will provide lectures and performance opportunities that focus on skills related to professional jazz performance practices

**0 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3099. Concert Ensemble.**

This is a major instrumental ensemble that provides playing experience for music majors to improve their performance skills in a mixed ensemble setting. May be repeated for credit. Co-requisite: MUSE 3120. Restricted to full majors in Music Studies, Instrumental Concentration

**0 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3101. Basketball Band.**

The Bobcat Basketball Band performs for all home men's and women's basketball games that do not fall over a university break. The group travels for all postseason tournaments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3102. Salsa Del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3103. Texas State Mariachi.**

Performing ensemble specializing in Mexican folk music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3104. Panorama Steel Drum Band.**

A performing ensemble specializing in Caribbean steel drum band music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3105. VocaLibre.**

A select vocal ensemble specializing in chamber music, including madrigal and jazz literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3106. Opera Workshop.**

Vocal performance opportunity to participate in performance of opera and to learn techniques for operatic acting and staging. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3107. Opera Theatre.**

Advanced level course designed for the mature vocal performer to analyze and strengthen individual acting and character techniques through work in full productions of operas, operettas and other musical theater literature. Prerequisite: MUSE 3106 Opera Workshop

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3108. Orquesta del Rio.**

Performing ensemble specializing in Latin and South America music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSE 3120. Bobcat Marching Band.**

This ensemble performs at all home and select away football games utilizing traditional and corps-style marching. The ensemble is focused on delivering entertaining and high-powered halftime shows while supporting Bobcat Football. The band also performs in exhibitions for high school band events. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3123. Concert Band.**

This ensemble provides playing experiences for non-music majors and music majors who want to improve their skills and serve as a lab ensemble for conducting students. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3124. Women's Choir.**

Performing ensemble specializing in choral literature for women's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3125. Men's Choir.**

Performing ensemble specializing in choral literature for men's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3126. Chamber Music.**

Small group performing ensembles focusing on chamber literature of mixed and similar instrumental music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3127. Jazz Combo.**

A small performance ensemble designed to develop improvisational skills and individual musical creativity through performance of standard jazz literature. May be repeated for credit

**1 Credit Hour. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3130. Wind Symphony.**

Major instrumental ensemble comprised of the most outstanding wind and percussion students who are selected by audition. The group is dedicated to the performance of the finest wind repertoire, whether a contemporary works for winds, or transcriptions from the orchestral repertoire. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3131. Symphonic Winds.**

Major instrumental ensemble consisting primarily of music majors and talented non-music majors. This ensemble performs a broad range of full ensemble repertoire, representative of all historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3140. Texas State Chorale.**

Auditioned major choral ensemble specializing in performances of literature from the Renaissance and 20th Century. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3141. University Singers.**

Major choral ensemble that performs a variety of literature, including masterworks, from the 17th Century to the present. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSE 3150. Texas State Symphony Orchestra.**

A full symphony orchestra that performs standard orchestra literature, as well as oratorio, concerto, and opera accompaniments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3151. Chamber Orchestra.**

Auditioned orchestra designed to perform advanced level symphonic literature with repertoire representing several of historical periods and styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3160. Jazz Ensemble.**

The jazz based ensemble performs advanced arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3161. Jazz Orchestra.**

The jazz based ensemble performs intermediate arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3162. Jazz Lab Band.**

The jazz based ensemble performs beginning arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3170. Accompanying.**

A coaching seminar for pianists to develop reading and accompanying skills. May be repeated for credit. Prerequisite: Piano major

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3180. Mysterium for Modern Music.**

A seminar-based course focusing on the performance and analysis of 20th century music in all styles and media. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 3190. Guitar Ensemble.**

Chamber guitar ensemble designed to provide interaction with fellow guitarists, develop musicianship as ensemble performer, and to familiarize student with music from different periods through a variety of literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 5101. Basketball Band.**

The Bobcat Basketball Band performs for all home men's and women's basketball games that do not fall over a university break. The group travels for all postseason tournaments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5102. Salsa Del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5103. Texas State Mariachi.**

Performing ensemble specializing in Mexican folk music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5104. Panorama Steel Drum Band.**

A performing ensemble specializing in Caribbean steel drum band music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5105. Vocalibre.**

A select vocal ensemble specializing in chamber music, including madrigal or jazz literature. May be repeated for credit. Prerequisite: Enrollment in major choral ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5106. Opera Theater.**

Opera Theatre explores advanced opera performance techniques designed for the graduate vocal performer. Students will analyze and strengthen acting and interpretive techniques through work in full productions of operas, operettas, and classical musical theater repertoire of all style periods, building skills necessary for a professional operatic career. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5108. Orquesta del Rio.**

Performing ensemble specializing in Latin and South American music. May be repeatable for credit. (MULT)

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required| Multicultural Content

**Grade Mode:** Standard Letter

**MUSE 5120. Bobcat Marching Band.**

This ensemble performs at all home and select away football games, utilizing traditional and corps-style marching. The ensemble is focused on delivering entertaining and high-powered halftime shows while supporting Bobcat Football. The band also performs in exhibitions for high school band events. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**MUSE 5123. Concert Band.**

This ensemble provides playing experiences for non-music majors and music majors who want to improve their skills and serve as a lab ensemble for conducting students. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5124. Women's Choir.**

Performing ensemble specializing in choral literature for women's voices. May be repeated for credit

**1 Credit Hour. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5125. Men's Choir.**

Performing ensemble specializing in choral literature for men's voices. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5126. Chamber Music.**

Small group performing ensembles focusing on chamber literature of mixed and similar instrumental music. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5127. Jazz Combo.**

A small performance ensemble designed to develop improvisational skills and individual musical creativity through performance of standard jazz literature. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5128. Conducting Seminar.**

A seminar based course focusing on conducting technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit. Prerequisite: Conducting Major or permission by the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5129. Afro-Caribbean Lab.**

This course is an experimental ensemble of flexible size and instrumentation that specializes in advanced arranging, performance, and improvisation involving Afro-Caribbean styles and rhythms. An audition is required for placement in this ensemble

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSE 5130. Wind Symphony.**

Major instrumental ensemble comprised of the most outstanding wind and percussion students who are selected by audition. The group is dedicated to the performance of the finest wind repertoire, whether a contemporary works for winds, or transcriptions from the orchestral repertoire. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5131. Symphonic Winds.**

Major instrumental ensemble consisting primarily of music majors and talented non-music majors. This ensemble performs a broad range of full ensemble repertoire, representative of all historical periods and styles.

May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5140. Texas State Chorale.**

Auditioned major choral ensemble specializing in performances of literature from the Renaissance and 20th Century. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5141. University Singers.**

Major choral ensemble that performs a variety of literature, including masterworks from the 17th Century to the present. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5150. Texas State Symphony Orchestra.**

A full symphony orchestra that performs standard orchestra literature, as well as oratorio, concerto, and opera accompaniments. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5160. Jazz Ensemble.**

The jazz-based ensemble performs advanced arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5161. Jazz Orchestra.**

The jazz-based ensemble performs intermediate arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5162. Jazz Lab Band.**

The jazz-based ensemble performs beginning arrangements of contemporary popular music in various styles. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5170. Accompanying.**

A coaching seminar for pianists to develop reading and accompanying skills. May be repeated for credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5180. Mysterium for Modern Music.**

A seminar-based course focusing on the performance and analysis of 20th century music in all styles and media. May be repeated for credit.

Prerequisite: Music (Composition Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5185. Modern Music Ensemble.**

A performance-based course focusing on the performance of modern music in all styles and media. May be repeated for additional credit

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSE 5190. Guitar Ensemble.**

Chamber guitar ensemble designed to provide interaction with fellow guitarists, develop musicianship as an ensemble performer, and to familiarize the student with music from different periods through a variety of literature. May be repeated for credit. Prerequisite: Music (Guitar Performance Specialization) major status

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Music Performance (MUSP)

**MUSP 1120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1121. Vocal Techniques.**

Vocal Techniques. Vocal instruction focusing on technique, musicality and performance for the beginning singer. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1135. Piano Techniques I.**

Introductory course to develop piano technique and musical style through sight-reading, scales, chords, harmonization, and improvisation. Prerequisite: Music major status

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1136. Piano Techniques II.**

Introductory course to develop piano technique and musical style through sight-reading, scales, chords, harmonization, and improvisation. Prerequisite: MUSP 1135

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1137. Piano Techniques III.**

Advanced level course to develop piano technique and musical style through sight-reading, scales, chords, harmonization and improvisation.

Prerequisite: MUSP 1136

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1138. Piano Techniques IV.**

Advanced level course to develop piano technique and musical style through sight-reading, scales, chords, harmonization and improvisation.

Prerequisite: MUSP 1137

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1180. Introduction to Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble;

Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 1280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble;

Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2125. Applied Voice for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual vocal development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2135. Applied Keyboard for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual keyboard development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2145. Applied Woodwind for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual woodwind development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2155. Applied Brass for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual brass development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2165. Applied String for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual string development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2175. Applied Percussion for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual percussion development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2185. Applied Composition for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual composition development. May be repeated for credit. Permission from instructor required to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2191. Electronic Music I.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: SRT majors

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2192. Electronic Music II.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 2191

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2225. Applied Voice for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual vocal development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2235. Applied Keyboard for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual keyboard development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2245. Applied Woodwind for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual woodwind development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2255. Applied Brass for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual brass development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2265. Applied String for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual string development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 2285. Applied Composition for non-majors.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance for individual composition development. May be repeated for credit. Permission from instructor required to enroll

**2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 3120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3131. Jazz Piano Techniques I.**

Beginning piano techniques class introducing scales and chords used in the jazz idiom. Prerequisite: MUSP 1136. Restricted to include students enrolled in the Bachelor of Music Concentration in Jazz or the Minor in Jazz

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3132. Jazz Piano Techniques II.**

Continuing study of piano technique in the jazz idiom and application of skills through performance and arranging. Prerequisite: Bachelor of Music with Jazz concentration or minor and MUSP 3131

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3145. Woodwind Techniques I.**

Basic teaching and performance techniques of the clarinet and saxophone. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3147. Woodwind Techniques II.**

Basic teaching and performance techniques of the flute and double reeds. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3155. Brass Techniques.**

Basic teaching and performance techniques of the trumpet, horn, trombone, euphonium and tuba. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3157. Brass Techniques II.**

Continuation of the basic teaching and performance techniques of the trumpet, horn, trombone, euphonium and tuba. Requires successful completion of the Upper Level Competency Review in Music Studies or permission from the instructor to enroll

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3165. String Techniques.**

Basic teaching and performance techniques of the violin, viola, cello and double bass. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3175. Percussion Techniques.**

Basic teaching and performance techniques of marching and concert percussion. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3191. Electronic Music III.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 2192

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3192. Electronic Music IV.**

Theoretical and working knowledge of sound synthesis, MIDI, and computer-based composition emphasizing practical applications using available software and instruments. Major subject areas: hardware and software, virtual instruments, sampling & playback devices, timbre control, MIDI synchronization, sequencing, digital audio workstations, editing, mixing, notation, and composition. Prerequisite: MUSP 3191

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3195. Instrumental Techniques.**

This course introduces basic teaching and performance techniques of band and orchestral instruments, instrumental ensembles and instrumental music programs for music students who consider instrumental music a secondary skill area. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3196. Jazz & Multicultural Techniques.**

This course explores the basic teaching and performance techniques of instrumentation, arranging and pedagogy in the areas of jazz and multicultural ensembles. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSP 3197. Choral/Vocal Techniques.**

This course will prepare instrumental music studies students with knowledge of and practice in basic vocal and choral techniques along with guidance in the choosing of appropriate choral literature in order that they may be successful in developing, directing, and maintaining choral programs in elementary and secondary schools. Prerequisite: Full major in Music Studies

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**MUSP 3220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance. May be repeated for credit.

Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor.

Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3360. Applied Strings.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 3380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. Co-requisite: MUSP 4230

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. Co-requisite: MUSP 4240

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. Co-requisite: MUSP 4260

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4164. Mariachi Melodia Techniques.**

This course provides students with the fundamentals of playing and teaching the melodic instruments associated with the Mariachi ensemble, with specific emphasis on the voice, violin, and trumpet. Topics will cover history, tuning, and stylistic techniques associated with each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4165. Mariachi Armonia Techniques.**

This course provides students with the fundamentals of playing and teaching the rhythm/harmony instruments in the Mariachi ensemble, with specific emphasis in the guitarrón, vihuela/guitar, and the harp. Topics will cover history, tuning, strumming, and stylistic techniques specific to each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4230. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 4340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4360. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 4380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or permission from instructor. Corequisites: Departmental Recital and appropriate major ensemble; Departmental Recital must be taken at the same level as lessons

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 5101. Graduate Recital.**

A full-length, public recital in the appropriate applied music area. Should be taken simultaneously with a final semester of applied music instruction by those students in performance degree plans

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5120. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5127. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5130. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5135. Piano Pedagogy Internship.**

Supervised teaching experience. Practical application of methods, techniques, and materials of piano pedagogy. Prerequisite: Instructor's permission

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5140. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5150. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5160. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5164. Mariachi Melodia Techniques.**

This course provides students with the fundamentals of playing and teaching the melodic instruments associated with the Mariachi ensemble, with specific emphasis on the voice, violin, and trumpet. Topics will cover history, tuning, and stylistic techniques associated with each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**MUSP 5165. Mariachi Armonia Techniques.**

This course provides students with the fundamentals of playing and teaching the rhythm/harmony instruments in the Mariachi ensemble, with specific emphasis in the guitarrón, vihuela/guitar, and the harp. Topics will cover history, tuning, strumming, and stylistic techniques specific to each instrument. This course is repeatable for credit three times

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5166. Latin Music Methods.**

This course provides students with knowledge that is essential to become effective directors of Mariachi and Salsa ensembles. Instruments, styles, repertory, and resources that are related to these ensembles will be discussed

**1 Credit Hour. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**MUSP 5170. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5175. Afro-Cuban Hand Drumming.**

The fundamentals of playing and teaching Afro-Cuban Drums. Topics will cover history and knowledge of styles of the various Afro-Cuban percussion instruments

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5180. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5185. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**MUSP 5220. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5227. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.

Prerequisite: Conducting Major or consent of the instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5230. Applied Keyboarding.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5240. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5250. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5260. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5270. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5280. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5285. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**MUSP 5320. Applied Voice.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the vocal area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5327. Applied Conducting.**

Through supervised private coaching, instruction focuses on baton technique, musicality, score reading, literature and performance in the conducting area, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated for additional credit.  
 Prerequisite: Conducting Major or consent of the instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MUSP 5330. Applied Keyboard.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the keyboard area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5335. Keyboard Skills.**

Advanced keyboard skills, styles, performance techniques, and professional health for pianists  
**3 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MUSP 5337. Advanced Conducting.**

Music performance class designed for further development of baton technique, score reading, and rehearsal preparation with special emphasis on analysis and musical styles. May be repeated once with different emphasis for additional credit  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**MUSP 5340. Applied Woodwind.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the woodwind area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5350. Applied Brass.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the brass area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5360. Applied String.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the string area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5370. Applied Percussion.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the percussion area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5380. Applied Composition.**

Through supervised private coaching, instruction focuses on technique, musicality, literature, and performance in the composition area. May be repeated for credit. Prerequisite: Music major status or consent of instructor  
**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**  
**Grade Mode:** Standard Letter

**MUSP 5385. Electro-acoustic Music.**

Introduction to recording and tape manipulation techniques of music concrete, electro-acoustical music techniques involving digital and analog synthesizers, and the MIDI environment. May be repeated for credit. Prerequisite: Music major status or permission from instructor  
**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

## Nature and Heritage Tourism (NHT)

**NHT 4301. Planning and Development of Nature and Heritage Tourism.**

This course applies basic planning and development principles to the special issues of nature and heritage tourism. Particular emphasis is placed on locational analysis, site analysis, and planning for sustainable use. Prerequisite: GEO 2410 with a grade of "C" or higher, or permission of the instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**NHT 4302. Internship in Nature and Heritage Tourism.**

Students will work in private or public sector settings to gain practical experience in the planning, development and management of nature and/or heritage tourism. Internships must be approved by the director of the Center for Nature and Heritage Tourism. Students will be expected to perform at high professional standards and will interpret the internship experience within the context of current literature. Prerequisite: NHT 4301  
**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

## Nursing (NURS)

**NURS 3110. Health Assessment Across the Life Span Practicum.**

This course requires demonstrated competency in the performance and documentation of physical assessments of well individuals and nursing care plans using the nursing process, critical thinking, and evidence-based practice. Apply teaching/learning principles in meeting the education needs of patients and demonstrate measures to maintain confidentiality of personal health information. Restricted to Nursing Majors  
**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**NURS 3121. Essentials of Nursing Care Practicum.**

This course requires the use of nursing process and clinical reasoning principles to provide safe, effective, patient-centered care. Evidence-based practices will be used when performing essential nursing skills and procedures to care for patients experiencing acute and chronic alterations in health status. Restricted to Nursing Majors

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3221. Essentials of Nursing Care.**

This foundation course focuses on basic concepts related to essential nursing care of patients across the life span. Integration of knowledge of family systems, evidence-based practice, clinical reasoning, and the nursing process to provide safe, effective, patient-centered care will occur. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 3230. Healthcare Systems.**

Access and barriers to healthcare, past and current healthcare policy, and the professional nurse's role in policy and delivery of healthcare, will be emphasized. Qualitative and quantitative research in relation to healthcare systems, evidence based nursing practice, and ethical topics will be discussed. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3240. Nursing Care Across the Life Span Practicum.**

This course uses clinical experiences to apply the nursing process in providing safe, effective, and quality care to patients and families across the life span. Clinical reasoning and judgment will be used to provide ethical, holistic, and patient-centered nursing care, promote health, prevent disease, and manage illness. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3241. Acute Nursing Care of Adults Practicum.**

This course requires students to use evidence-based and collaborative practice principles in providing safe, effective, and quality care to adult patients experiencing acute, rapidly changing, life-threatening alterations in health status. Clinical reasoning and judgment will be used to provide ethical, holistic, patient-centered nursing care, manage illness, and promote health. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3250. Health Assessment Across the Life Span.**

Conducting health histories and physical assessments of well individuals and developing nursing care plans that include patient age-specific health promotion, illness prevention, and risk factors will be emphasized. Assessments will encompass cultural domains, diversity, belief systems, and the implications for traditional as well as complementary and alternative healthcare. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3260. Psychiatric Mental Health Nursing Practicum.**

This course utilizes clinical experiences to promote application of the nursing process in providing quality care to those experiencing mental health issues across the life span. Competency in using evidence-based practices to promote health, prevent disease, and manage illness will be developed. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 3300. Foundations of Professional Nursing Practice.**

This course explores the history of nursing in the context of the evolving healthcare system. Laws, regulations, and ethical guidelines impacting nursing licensure and professional practice will be examined. The delivery of patient and family-centered, evidence-based, and safe quality care will be explored. Restricted to Nursing Majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NURS 3302. Research and Ethics.**

Introduction to critical appraisal of qualitative and quantitative research, and application of research and evidence-based processes used to improve decision-making and patient care outcomes across health settings. Integration of theory, information systems, clinical judgment, interprofessional perspectives and analysis of ethical conduct provide a foundation for learning the research process. Restricted to Nursing Majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NURS 3430. Pathophysiology and Pharmacology for Nurses.**

Introduction and overview of pathology, clinical pharmacology and pharmacotherapeutics, including how major drugs are used therapeutically for age-specific clients. Other topics to be covered include drug laws and regulations, patient and nurse safety. Prerequisite to NURS 3440 and NURS 3460. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3440. Nursing Care Across the Life Span.**

This foundational course focuses on the use of clinical reasoning and judgment to provide collaborative care to patients across the life span experiencing chronic and acute alterations in health status. Content is presented based on evidence-based practice and the prevalent health needs of patients. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 3441. Acute Nursing Care of Adults.**

This course focuses on the use of evidence-based practice and clinical reasoning and judgment to provide collaborative care to adult patients experiencing acute, rapidly changing, life-threatening alterations in health status. Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 3460. Psychiatric Mental Health Nursing.**

This course applies theories, concepts, knowledge, and skills for the comprehensive nursing care of those coping with mental health issues. Building on a liberal education, this course integrates theories of mental illness, psychopathology, and current research findings as they relate to the presentation of symptoms and holistic management of care.

Restricted to Nursing Majors

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4201. Professional Growth and Empowerment.**

This course focuses on issues related to professional practice, career planning, personal goal setting, and empowerment of self and others. Factors related to job performance, performance expectations and evaluation, reality orientation, and commitment to lifelong learning will be discussed. Restricted to Nursing Majors

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 4211. Nursing Care in Complex Health Practicum.**

This course focuses on providing care to patients with complex health alterations and life situations. Nursing care to patients in a variety of settings will be provided using the concepts of therapeutic communication and collaborative interventions with a focus on the complexity of the patient's or family's needs. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4241. Leadership and Management of Nursing Care Practicum.**

Leadership and management skills in a variety of nursing care situations will be applied. Nursing unit leadership and staff assignments based on assessment of client needs, resources, priorities, and competencies of staff will be covered. Assessment and evaluation of the provision of evidence-based nursing care will be performed. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4250. Maternal, Newborn, and Pediatric Nursing Practicum.**

This course is the clinical companion to NURS 4350. Concepts, knowledge, and skills taught in NURS 4350 will be applied to both simulation lab and clinical settings. Evidenced-based, developmentally and culturally appropriate nursing care in a variety of patient-care settings will be emphasized. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4280. Community-Based Nursing Practicum.**

Health assessment and planning will be conducted for diverse community groups including education, support groups/ resources, advocacy, response to situational crises, bio-terrorism and environmental emergencies, group dynamics, and impact on communities. Clinical experiences will occur in community or public health settings. Restricted to Nursing Majors

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 4311. Nursing Care in Complex Health.**

This course explores traditional and contemporary nursing concepts related to complex health alterations, compensations, and environments across the life span. Therapeutic communication, education, and collaborative interventions with diverse individuals and groups are emphasized including the use of complementary and alternative modalities to meet the needs of patients. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4350. Maternal, Newborn, and Pediatric Nursing.**

This course applies the nursing process and evidenced-based practice to the care of maternal, newborn, and pediatric patients in acute care settings. The course emphasizes the use of the nursing process to provide care to individuals and families that is developmentally and culturally focused. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4380. Community-Based Nursing.**

Using a variety of philosophical perspectives, community-based nursing care, learning to contrast care in hospital-based settings while transitioning into organizations within the community will be explored. Reflective assessment skills and mindful intervention/teaching projects will be developed. Restricted to Nursing Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**NURS 4441. Leadership and Management of Nursing Care.**

Students discuss leadership and management theories related to organizational nursing roles, including competencies required for complex change, performance improvement, and transformational leadership. Organizational contexts – structure, processes, and culture – in leading and directing patient centered care are examined, along with relationships between governance structures, practice environments, and positive patient outcomes. Restricted to Nursing Majors. (WI)

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NURS 5102. Advanced Health Assessment Practicum.**

This course emphasizes advanced health assessment techniques and skills common to patient evaluation and development of differential diagnoses. Advanced physical assessment skills and identifying common signs and symptoms related to physical examination will be developed. Restricted to MSN degree students only

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5106. Fundamentals of Appraisal and Translational Research II.**

This course builds upon work begun in the first research course. Emphasis will be placed on writing an evidence-based scholarly paper or project in collaboration with a faculty member. Presentation of the findings and submission of a paper for publication will be required in the final semester. Restricted to MSN degree students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5107. Fundamentals of Appraisal and Translational Research III.**

This course is a continuation of work begun in previous courses and will result in an evidence-based scholarly paper or project. Presentation of the findings and submission of a paper for publication will be required. This is a culminating project for the entire course of study. Restricted to MSN degree students only

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5141. Reproductive, Sexual and Obstetrical Health Practicum.**

Students will integrate research evidence into practice with adolescent and adult patients while working in clinical settings in collaboration with other health care professionals. Students will utilize a systematic approach of assessment to develop advanced practice treatment plans for patients seeking care related to reproduction, sexual and obstetrical health. Restricted to MSN degree students only

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5202. Advanced Health Assessment.**

This course emphasizes advanced health assessment techniques and skills common to family practice. Advanced skills in laboratory evaluation, taking and assessing patient history, and diagnostic capabilities, which are sensitive to cultural and developmental needs of a variety of patients in diverse settings, will be developed. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5204. Fundamentals of Appraisal and Translational Research I.**

This course focuses on a variety of interest areas, related research and the evaluation of current research trends. There will be critique of research methodologies and outcomes into application within the clinical setting, as well as exploration of technological applications and student data compilations. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5205. Health Care Leadership for a Changing World.**

This course will utilize documents from the World Health Organization, current research in the concepts of complexity leadership skills, creating adaptive systems, and new views on communication and intersubjectivity in collaborative relationships within these systems. Research in mindfulness and reflective practice will be employed. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5208. Current Issues in Advanced Practice Nursing.**

The current professional and legal issues that influence advanced practice nursing, nursing education and the health care delivery system are discussed. Health care policy, changes in the economics of health care, and their impact on nursing are considered. Restricted to MSN degree students only

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5301. Advanced Pathophysiology.**

In preparation for advanced practice, this course will expand understanding of the pathophysiology underlying dysfunctions and interrelatedness of the processes of normal physiology and pathophysiology across the continuum of disease and return to wellness. Applications will be made utilizing lifespan perspectives of the process. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5303. Advanced Pharmacotherapeutics.**

This course provides advanced knowledge in selecting pharmacologic agents and specific drugs, based on acute and chronic health problems in diverse populations. Knowledge of pharmacologic groups, indications and contraindications, dosing with special needs groups, adverse effects, and collaborative monitoring of pharmacotherapy and alternative therapies will be developed. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5310. Adult/Gerontology Primary Care Practicum.**

This clinical experience encompasses adult through geriatric health care in a variety of clinical settings. Application of the principles for developing a differential diagnosis, clinical decision making, designing interventions for patient care, and treatment in a variety of clinical settings will be performed. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5311. Behavioral Health Primary Care.**

This course includes family system theories and their application to families. Common behavioral health diagnoses, such as anxiety, depression, and co-existing mental and physical illness, are investigated in relation to the human lifespan. The prevalence and incidence of behavioral health issues are considered in terms of diagnosis and theory. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5330. Pediatric & Adolescent Primary Care Practicum.**

Students will integrate translational research evidence into practice with adolescent and pediatric patients while working in clinical settings in collaboration with other health care professionals. Students will utilize a developmental approach of assessing the pediatric and adolescent patient to create advanced practice treatment plans. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5341. Reproductive, Sexual and Obstetrical Health.**

This course examines issues of fertility and infertility in males and females as well as the diseases related to sexual health. Selected topics in obstetrics, genetics, adolescent sexuality, family planning, cancers, HIV/AIDS, and STI's will be explored. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**NURS 5350. Integrative Family Primary Care Practicum.**

This course develops skills in utilization of holistic assessment, as well as application of the principles for developing a differential diagnosis, clinical decision making, and designing interventions and treatment in a variety of clinical settings. Evaluation of traditional and complementary/alternative methods for supporting health promotion will also be explored. Restricted to MSN degree students only

**3 Credit Hours. 0 Lecture Contact Hours. 12 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NURS 5351. Theoretical Foundations of Advanced Integrative Nursing.**

This course includes nursing theories and the interrelatedness to the advanced practice role. Mind and body interconnectedness, allopathic and alternative care models are discussed. The developmental processes between wellness and illness are considered. Restricted to MSN degree students only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5410. Adult/Gerontology Primary Care.**

This course focuses on the collection of data, pertinent laboratory findings, diagnostic tests, differential diagnoses and plans for therapeutic intervention. Integration of theory, health promotion, disease prevention, and clinical decision making in a variety of clinical care settings as applied to adults and older adults will be emphasized. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5430. Pediatric & Adolescent Primary Care.**

This course investigates the primary care management process to diagnose, treat, and follow up common illnesses of increasing complexity in pediatric and adolescents using family-centered and developmental perspectives. Perspectives of underserved populations in a variety of clinical settings will be explored. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NURS 5450. Integrative Family Primary Care.**

This course emphasizes the evaluation of clinical indications and contraindications, potential risks, and methods of accessing evidence-based information about complementary and alternative care, nutrition, herbs and dietary supplements. Skills in educating patients, communicating and collaborating with other health professionals, and documenting and reporting adverse events will be mastered. Restricted to MSN degree students only

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Nutrition and Foods (NUTR)

**NUTR 1162. Food Systems Laboratory.**

This course provides for application of the management techniques and concepts of planning, preparation, cost analysis, and evaluation covered in NUTR 1362. Pre or Co-requisite: NUTR 1362

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 1362. Food Systems.**

Nutrition, food science, and management principles in planning, procuring, preparing, preserving, evaluating, and serving food to fulfill dietary requirements of individuals and diverse cultural groups. Includes federal legislation, environmental issues, and culinary principles. Pre or Co-requisite: NUTR 1162

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 2162. Food Science Laboratory.**

Students engage in laboratory techniques and exercises related to food, chemistry, microbiology, nutrition, food palatability, and food safety.

Prerequisite: NUTR 2360 with grade of C or higher. Co- or prerequisite: NUTR 2362

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 2360. Nutrition Science.**

The science of human nutrition with emphasis on nutrient digestion, absorption, and excretion; nutrient metabolism, requirements, and sources. Prerequisite: Three semester hours of science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** BIOL 1322

**NUTR 2361. Nutritional Assessment.**

This course teaches the principles and techniques of assessing nutritional status, presents interviewing and nutrition counseling theories, development of individualized treatment plans and educational tools, and accessing community nutrition resources. Practical application is provided through assignments and in-class experiences. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 2362. Food Science.**

Students learn the scientific principles underlying the relationships among food, chemistry, microbiology, nutrition, and food safety as related to the major food groups. Prerequisites: 3 hours of chemistry or biology, and NUTR 2360 with grade of C or higher. Co- or prerequisite: NUTR 2162

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3166. Advanced Food Science Laboratory.**

This lab teaches different techniques and protocols used in physical, chemical, colorimetric, spectrophotometric, molecular, and microbiological analysis of food components and assessment of food quality, stability, and safety. Different bioprocessing techniques to improve the quality of food will also be performed. Prerequisites: NUTR 2362, NUTR 2162, CHEM 1341, CHEM 1342. Co-requisite: NUTR 3366

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3362. Nutrition and Health.**

For non-science majors. Involves the study of the nutrients and their function in promoting health throughout the life span. Includes standards for consumer selection of a proper diet and analysis of nutrition-related health problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3363. Nutrition for Wellness and Fitness.**

Students will study the causes and treatment of overweight and obesity and the effects of dietary and lifestyle choices on attainment and maintenance of health and prevention of chronic diseases. Basic exercise physiology is introduced and dietary recommendations for sports, fitness and prevention of eating disorders are also presented. Prerequisites: NUTR 2361 and NUTR 3367; BIO 2430, or BIO 2451 and BIO 2452, all with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3364. The Science of Nutrition and Exercise.**

This course focuses on basic nutritional science, with emphasis on the physiological and biochemical importance of nutrition to physical performance, health, and fitness. The use and efficacy of ergogenic aids will be investigated. The course requires reading and interpreting the scientific literature. Restricted to students majoring in Athletic Training, Exercise Sports Science, Family and Consumer Sciences, Health & Fitness Management, or Health & Wellness Promotion

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3366. Advanced Food Science.**

This course provides an examination of the chemistry, morphology, concentration, and compartmentalization of cellular components in food; the effect of storage and processing on molecular levels of food quality; the kinetic behavior, activity, and stability of food enzymes and microbes, and their effect on food quality and safety. Prerequisites: NUTR 2162, NUTR 2362, CHEM 1341, CHEM 1342. Co-requisite: NUTR 3166

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 3367. Nutrition and Physiology.**

This course integrates the study of nutrition with other biological sciences, focusing on cellular and molecular physiological processes related to digestion, absorption, transport, and metabolism of nutrients and other dietary components. Prerequisites: NUTR 2360 and BIO 2430 with grades of C or higher; and CHEM 1341, CHEM 1141, CHEM 1342, CHEM 1142

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4101. Special Problems in Nutrition and Foods.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**NUTR 4167. Food Systems-Production & Management Laboratory.**

This course provides for the application of the management techniques and concepts of institutional food production covered in NUTR 4367. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher; Pre- or corequisite: NUTR 4367

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4301. Career Exploration in Nutrition and Foods.**

Students engage in applied experience under the supervision of a professional mentor in nutrition and foods-related professions, services, businesses, and/or research. Prerequisite: must meet college, department and program requirements. (WI)(Capstone Course)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4302C. Micronutrients.**

A study of the biochemical and physiological foundations of nutrition. Information pertaining to biochemical structure, metabolism and physiological regulation of minerals and fat-soluble vitamins.

Prerequisites: NUTR 2360 and NUTR 3365; Co-requisite: CHEM 2450

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**NUTR 4302E. Community Nutrition.**

A study of community nutrition programs addressing food insecurity, prevention and treatment of chronic diseases, and health promotion among special populations, including maternal, infant, child, adolescent and older adults. Review of national and international healthcare systems; program planning incorporating evidence-based intervention strategies. Prerequisite: NUTR 2360 or NUTR 3362; NUTR 4365

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**NUTR 4304. Functional Foods and Nutraceuticals.**

This course introduces students to functional foods, nutraceuticals and dietary supplements used to prevent and treat chronic and infectious diseases. Emphasis is placed on sources and mechanisms of action of dietary bioactives and addresses regulatory issues that govern the development and commercialization of these compounds. Prerequisites: NUTR 2360 or NUTR 3362; NUTR 3367; and two semesters of chemistry and/or biology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4350. Hospitality.**

Focus on the principles underlying operations in the hospitality industry. Concepts include residential and lodging operations, guest expectations, food, beverage, and maintenance services, promotions, budget control, personnel and security

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4360. Medical Nutrition Therapy.**

This course explains the physiological and biochemical abnormalities of certain disease states of human body systems with emphasis on diet modification as a therapeutic measure. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or better; and NUTR 4365 with a grade of D or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4361. Biochemical Nutrition.**

A study of the biochemical and physiological foundations of nutrition. Information pertaining to cytology, biochemical structure of nutrients, energy transformations, nutrient-drug interactions, and the anatomy, physiology, and nutrient metabolism of major organ systems is covered. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or better; and NUTR 4365 with grade of D or better. Pre- or co-requisite: CHEM 2350 and CHEM 2150, or CHEM 3375, or CHEM 4375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4362. Nutrition and Genetics.**

This course will examine the specific processes in intermediary nutrient metabolism and their genetic regulation. The effects of nutrients on gene expression, cell signaling, cell physiology, and disease processes will also be explored. Prerequisites: NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452; and BIO 2440 or BIO 2400, all with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4363. Nutrition Counseling and Education.**

Study of teaching/learning styles and development of counseling skills to improve the nutritional status of individuals, families, and groups. Development of effective nutrition education materials and media communications. Prerequisites: NUTR 2361, 4365

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4365. Nutrition in the Life Span.**

This course provides for the in-depth study of the normal growth, development, and nutritional requirements associated with pre-pregnancy, pregnancy, infancy, childhood, adolescence, and the older adulthood. Prerequisites: NUTR 2361, NUTR 3367; and BIO 2430 or BIO 2451 and BIO 2452, all with grades of C or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4366. Ethics and Policy in Nutrition.**

This course addresses the influence of government, interest groups, media, and industry on nutrition policy decisions, public and private funding, nutrition education, the food supply and food choices, and includes discussion of ethical considerations that have an impact on public health. Prerequisites: NUTR 1362 with grade of C or higher; NUTR 4365. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 4367. Food Systems-Production & Management.**

Students study the principles, policies, and procedures for planning, procurement, staffing, production, evaluation, and research in institutional food service. Topics include systems design, decision hierarchy, organizational structure, and personnel selection, training, and management. Prerequisites: NUTR 1362, NUTR 2360 with grades of C or higher; Pre- or corequisite: NUTR 4167

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 4391. Independent Study in Nutrition and Foods.**

Independent reading and/or research on a specific topic related to students' primary area of interest. Work may consist of research, reviews, and integration of existing literature, or other appropriate independent work. May be repeated once for credit with approval of instructor. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**NUTR 5101. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**NUTR 5199B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NUTR 5299B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NUTR 5300. Foundation Studies in Human Nutrition.**

This course is designed for students who do not have a sufficient background in the foundations of nutrition and food science to be successful in graduate level courses. Prerequisite: consent of graduate advisor. No graduate credit awarded; may be repeated

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**NUTR 5302E. Nutrition and Disease.**

An advanced study of the ability of various nutrient and non-nutrient compounds found in food to prevent and treat disease. Diseases covered include cancer, diabetes, cardiovascular disease, among others. Prerequisite: graduate standing and permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**NUTR 5302F. Nutritional Supplements.**

An advanced study of the efficacy of dietary supplements. Both nutrient and non-nutrient supplement components will be discussed. Clinical trials, epidemiological data and molecular mechanisms of action of dietary supplements will be compared to manufacturer's claimed action. Prerequisite: graduate standing and consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**NUTR 5302G. Pediatric Obesity.**

An advanced study of pediatric obesity, including causes, economic and health related consequences, evidence-based treatment and prevention strategies. Prerequisite: graduate standing and consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**NUTR 5302J. Diet Therapy and Pathophysiology.**

This course will investigate the use of diet as a treatment for a variety of acute and chronic disease states. Students will also learn to apply the nutrition care process to treat patients/clients with acute and chronic diseases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**NUTR 5303. Nutrition and Food Science Project.**

Directs the graduate student to review, analyze and compile current scientific literature pertaining to a specific, advanced topic in nutrition under guidance of faculty. Course includes preparation of a manuscript (review of literature) in publication format. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5304. Advanced Functional Foods and Nutraceuticals.**

Sources and mechanism of action of dietary bioactive compounds in functional foods, nutraceuticals and supplements in the prevention and management of chronic and infectious diseases. The efficacy, safety and regulatory issues governing development and commercialization will be discussed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5305. Seminar in Nutrition and Disease.**

An advanced study of a selected topic in nutrition concerning nutrients and functional foods and their role in disease prevention or treatment. Class topics will enter on clinical trials, epidemiological data and molecular mechanisms of action concerning the ability of nutrients to prevent or treat disease. Repeatable for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5306. Seminar in Nutrition in the Lifespan.**

An advanced study of a selected topic in nutrition and the lifespan from a multidisciplinary perspective, including review of scientific literature in nutrition, physiology, biochemistry, sociology, exercise sports science, epidemiology, endocrinology and genetics. Repeatable for credit when topic varies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5350. Research Methods in Nutrition and Food Science.**

Evaluation of research concepts, methods, and strategies used in nutrition and food science research. Topics include the nature of scientific research, sampling, measurement, data collection, types of research methodology, use of data analysis and management software, and evaluation of research reports

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5355. Advanced Independent Study in Nutrition.**

Individual work with specific guidance from graduate nutrition faculty. Work may include participation in research, professional practice, and/or critical review of the scientific literature. Course may be repeated once for credit when topics vary

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5360. Practicum for Dietetic Internship.**

Students observe and engage in the practice of dietetics under the supervision of practitioners in facilities for health care, public health, and food systems. Repeated twice to meet requirements to complete the dietetic internship program. Graded on a credit (CR), no credit (F) basis.

Prerequisites: Admission to Texas State Dietetic Internship

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**NUTR 5361. Advanced Food Systems Administration.**

Techniques and procedures for management, service, and marketing of meals in commercial and noncommercial food service facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5362. Advanced Medical Nutrition Therapy.**

Advanced study of medical nutrition therapy with emphasis on application of principles and techniques of nutritional assessment emphasizing current clinical nutrition practices. Current scientific literature will be used extensively to discuss most recent advances in the area of medical nutrition therapy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5363. Advanced Community Nutrition.**

Assessment of the nutritional needs of the community and of programs that serve the needs. Experiences include survey techniques, nutritional education, and management of programs to meet specific nutritional needs through community agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5364. The Science of Nutrition and Exercise.**

An advanced course focusing on the physiological and biochemical impact of nutrient intake on physical performance, health and fitness. Special emphasis will be placed on the investigation of a variety of dietary supplements, including purported ergogenic aids. The course requires significant reading and interpreting of the scientific literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5365. Analytical Food Science and Molecular Techniques.**

Theory and practical applications of methods for (bio)chemical, microbiological and genetic analysis of foods. Includes: water-activity measurement, texture, calorimetry, spectroscopy, gas liquid chromatography, high performance liquid chromatography, microscopy, bacterial cultivation/identification, electrophoresis, bioluminescence, immunological techniques, gene probes and other emerging technologies. Prerequisite: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**NUTR 5366. Nutrient Metabolism I.**

An advanced study of the biochemical and physiological foundations of nutrition and metabolism and its relevance to health and wellness. Scientific literature pertaining to biochemical structure, metabolism and physiological regulation of macronutrients and water-soluble vitamins. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5367. Nutrient Metabolism II.**

An advanced study of the biochemical and physiological foundations of nutrition with emphasis on fat-soluble vitamins and minerals. Current scientific information pertaining to structure, metabolism and physiological regulation of these micronutrients. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5368. Food Biotechnology.**

Applications of microbiology, genetic engineering and biotechnology to the production of food and food ingredients. Addresses the use of biotechnology in creation of genetically engineered foods and functional foods from microbes, plants and animals. Ethical and security risks associated with food biotechnology will be debated. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5369. Nutrition and Immune Function.**

This course integrates existing knowledge in several areas - nutrition, food science, metabolism and immunology. Discussion will focus on the effect of dietary components on activation of cells and genes related to immune system and underlying mechanisms of nutritional immunomodulation. Prerequisites: Graduate Standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5370. Food and Nutritional Toxicology.**

Basic principles of nutritional and food toxicology. Absorption, metabolism and excretion of xenobiotics, allergenic and toxic constituents in diet. Effect of dietary toxins on nutritional status, mutagenesis, carcinogenesis and disease. Regulation and safety assessment of foods including food additives, environmental contaminants, pesticides and antibiotic residues. Prerequisite: Graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5371. Externship in Human Nutrition.**

Structured practical experience in human nutrition, food science, food biotechnology. Supervision provided by a member of the graduate faculty and a designated individual at the work site. Requires a minimum of 150 hours of supervised experience. Prerequisites: Graduate standing and approval by graduate advisor and faculty supervisor

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5372. Advances in Nutrition Policy and Ethics.**

This course considers the disparate influences on the US food supply, on federal and state nutrition and food-related policies, and ultimately, on individual dietary intake. Potential influences, including current state and federal policies, industry, interest groups, and the media, driven by economics and ethical consideration, will be addressed. Enrollment restricted to students in the MS in Human Nutrition program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5374. Advanced Nutrition and Genetics.**

This course will examine the specific processes in intermediary nutrient metabolism and their genetic regulation. The effects of nutrients on gene expression, cell signaling, cell physiology, and disease processes will also be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5375. Advances in Life Span Nutrition.**

An advanced study of the nutritional requirements throughout the life span involving a multidisciplinary approach including, biochemistry, endocrinology and genetics, and perspectives of human psychological and social development. Prerequisite: consent of graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**NUTR 5399A. Thesis.**

Initial thesis enrollment. Focus is on identification of thesis topic, review of literature, research design and preparation of thesis proposal. No thesis credit is awarded until completion of NUTR 5399B. Prerequisite: Graduate standing

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NUTR 5399B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NUTR 5599B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**NUTR 5999B. Thesis.**

Continuing thesis enrollment. Focus is on data collection, analysis and writing of the thesis. The student continues to enroll in this course until the thesis is defended. Prerequisite: NUTR 5399A

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Occupational Education (OCED)



**OCED 3310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 4111. Independent Study in Occupational Education.**

This is an independent study course that allows research on topics in occupational education related to a student's interests. Work may include individual research, critical reviews or integration of existing bodies of knowledge. Course may be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**OCED 4350. Adult Development and Career Planning.**

This course introduces students to human development, learning theory, transition theory, interdisciplinary studies, career planning and assessment, and goal setting relevant to developing a professional growth plan. Prerequisite: 2.0 Overall GPA. Corequisite: CTE 3313E. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**OCED 4360. Bachelor of Applied Arts and Sciences Capstone Part 1.**

This is the first part of a two-part capstone devoted to the development of the student's supervised capstone project. Proposal development, review of literature, creation of timelines, and task analysis are stressed. Following instructor approval, work on the capstone project begins in this course. Prerequisites: CTE 3313E and OCED 4350. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 13 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**OCED 4361. Bachelor of Applied Arts and Sciences Capstone Part 2.**

This is the second part of a two-part capstone devoted to the development of the student's supervised capstone project. Application of knowledge, abilities, and skills acquired in the degree program is stressed. It requires extensive reports and documentation. Prerequisite: OCED 4360. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 13 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**OCED 5101. Instructional Skill Development.**

Graduate assistants are required to enroll in this course to be prepared to instruct/assist with classes in Occupational/Career and Technology Education. Topics covered are essential teaching strategies, techniques, evaluation design, online instruction, and effective instructional, motivational techniques. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**OCED 5300. Interdisciplinary Research Methods.**

Basic and advanced concepts related to interdisciplinary research. Special emphasis will be placed on technical writing skills, electronic analysis of databases, appropriate statistical treatment of data, development and validation of instruments, and interdisciplinary research design and procedures

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5301. Applied Interdisciplinary Research Part 1.**

The instructional intent is to provide the graduate students with an opportunity to apply their research skills. Students are carefully monitored and mentored in initiating, performing, and documenting their individualized research project. Prerequisites: OCED 5300 and approval of research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5302. Applied Interdisciplinary Research Part 2.**

This course is the final course in the interdisciplinary research series. It requires the development of a comprehensive final research report including extensive tables and graphs. Students must also be prepared to present the findings of the research to the Occupational Education faculty and students at the Graduate Research Forum. Prerequisite: OCED 5301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5304. Professional Practicum.**

This course engages students in a field based experience designed in OCED 5360C, the previous course in the sequence. Students implement their practicum of approximately 120 hours in a work-based setting and concurrently collect ongoing reflections of their experience. Prerequisite: OCED 5360C

**3 Credit Hours. 1 Lecture Contact Hour. 8 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5310. Human Problems in the Workplace.**

Overview of problems that supervisors, teachers, and co-workers encounter in business/industry, social service, military, or education. This range of problems interferes with communication, performance, and development of proficiency in school/work. Perspectives and reports on the incidence of these problems will be presented, as well as actions for these human problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**OCED 5360. Special Topics in Occupational Education.**

This course represents directed study and research in selected topics in occupational education such as systems theory or critical thinking for the workplace. Independent research projects may be assigned to each student as part of the course. May be repeated (with different emphases) for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCEC 5360A. Sustainable Human Systems in Occupational Sciences.**

This course provides students with a knowledge foundation for systems theory. This knowledge, plus ethical reflection and applicable field work, will enhance students' ability to understand human systems, ambiguity in those systems and organizational complexity, and have the ability to leverage systemic problem-solving skills and human interventions in organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCEC 5360B. Critical Thinking in the Workplace.**

This course provides students with an opportunity to examine workplace decision making in terms of critical thinking. Current occupational approaches to critical thinking will be emphasized. Students will participate in simulations and case studies of critical thinking for the workplace

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**OCEC 5360C. Reflective and Experiential Learning Techniques.**

This course prepares graduate students for a field-based practicum. Students learn reflection and experiential learning techniques useful in the domain of careers, workplace, and leadership. They also locate, develop, and propose a professional practicum experience, which can be carried out in a following course. Prerequisite or Co-requisite: CTE 5330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**OCEC 5360D. Leadership Development.**

This course introduces students to leadership theory. Students will explore multiple approaches to leadership, topics related to leadership within organizations, ethics and values in leadership, and practical applications of theory in real-life situations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Philosophy (PHIL)

**PHIL 1305. Philosophy and Critical Thinking.**

A study of universal philosophical problems and their solutions with a view toward developing clear thinking about knowledge, belief, and value. Approximately one half of this course will focus on the student's critical thinking skills. Credit cannot be given for both PHIL 1305 and PHIL 3301. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 1301

**PHIL 1320. Ethics and Society.**

Study of ethics, its recent focus on social problems, and new fields of inquiry, including environmental ethics, ethics in business, professions, technology and sport. Also such global issues as poverty, minority rights, and stem cell research. Emphasis on development and application of principles of critical thinking and moral reasoning. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Lang, Phil & Culture Core 040|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2306

**PHIL 1330. Critical Thinking.**

Study of informal fallacies, valid argument forms, problem solving strategies, language clarification, and application of analytic skills

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 2311. History of Philosophy Before 1600.**

Early Greek, Roman, and medieval systems of thought. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2316

**PHIL 2312. History of Philosophy Since 1600.**

Modern philosophical thought through the 19th century. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2317

**PHIL 2330. Elementary Logic.**

A study of the nature and forms of correct reasoning, both deductive and inductive

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHIL 2303

**PHIL 3301. Philosophical Issues.**

The great philosophical concepts that have challenged the best thoughts of people and have contributed to the fulfillment of the good life.

Emphasis upon the applicability of those concepts to human life in our time and to the development of intellectual perspective. Approximately one half of this course will focus on the student's critical thinking skills.

Credit cannot be given for both PHIL 3301 and PHIL 1305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3314. American Philosophy.**

Examination of contributions of Americans to perennial philosophical issues. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3315. Contemporary Philosophy.**

Selected readings in late 19th and 20th century philosophy: existentialism, positivism, analytic philosophy, phenomenology, and pragmatism. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3316. Existentialism and Phenomenology.**

A study of the nature of human experience and existence in the philosophies of Kierkegaard, Nietzsche, Husserl, Heidegger, Sartre, Merleau-Ponty, and Camus. Topics will include freedom, dread, emotion, death, other minds, faith, and the past as experienced by the individual.

Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3317. Science and Religion.**

An examination of modern science and Western religion, and an analysis of the issues and ideas involved in the relationships between them.

Prerequisites: 3 hours of lower division PHIL, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3318. Reason, God and Nature.**

An analysis of the concept of God, terms predicated on God, and theological propositions. An attempt to determine the nature of religious utterances in comparison with those of everyday life, scientific discovery, morality, and imaginative expression. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3320. Ethics.**

A study of classical and contemporary philosophical inquiries into our knowledge of the "good" and the grounds of moral obligation. May be repeated once for additional credit. (Capstone) Prerequisite: Three hours of lower division PHIL, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3321. Contemporary Moral Problems.**

Contemporary Moral Problems. (3-0) Exploration of philosophical dimensions of contemporary moral problems such as abortion, euthanasia, poverty, animal rights, nuclear war, and privacy in a computer age. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. May be repeated once for additional credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3322. Professional Ethics.**

Study of major topics in business and professional ethics, including what a profession is, whether it differs from business, and what is involved with the moral education, social responsibilities, and ethical standards of professionals and business people. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3323. Environmental Ethics.**

Study of ethical issues associated with the environment including nature, use, preservation, and restoration of the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 3324. Meaning of Life.**

Investigation of major theories of the meaning of life in Western and Eastern philosophies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3325. Philosophy of Sex and Love.**

Critical survey of major thinking on sex and love from ancient to modern times. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3326. Philosophy and Sport.**

Examines philosophical issues in sport, including the social significance of sport, ethical issues, gender equity, sport and race, mind and body in sport, aesthetics, sport and self-knowledge, and the connection of sport and philosophy. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3331. Philosophy of Law.**

The major theses which have been set forth in the history of jurisprudence including foundations of law, natural law, legal positivism, and the judicial process. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3332. Social and Political Philosophy.**

Critical examination of major theories concerning the organization of societies and governments. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3333. Feminist Theory.**

This course will examine major feminist theories including liberal feminism, Marxist feminism, radical feminism, and post-modernist feminism with an eye especially to revealing the complexity and diversity of contemporary feminist thought. Prerequisite: Three hours of lower division philosophy, PHIL 3301, WS 3376 or WS 3377, or permission of the instructor. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 3340. Symbolic Logic.**

Study of the logic of propositions through propositional calculi, formal proofs, and first-order functional calculi. Also included is an investigation into the axiomatic method as used in logic and mathematics, including the concepts of completeness and consistency. Prerequisite: PHIL 2330, or MATH 2372, or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 3351. Philosophy and Literature.**

The course explores the relation between philosophy and literature. Prerequisite: Three hours lower division PHIL, PHIL 3301, or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4301. Applied Philosophy.**

Practical application of methods and teaching of philosophy to religion, science, morality, politics, art, or literature. The study of one or more of these areas will demonstrate how philosophy contributes to the identification of issues as well as their resolution. May be repeated for credit. Prerequisite: 3 hours of lower division PHIL, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4302. Dialogue.**

Study of literature about the nature, purpose, and significance of dialogue along with active participation in the dialogues of the Department of Philosophy's Dialogue Series. Prerequisite: PHIL 1305 or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4303. Philosophy of Technology.**

Study of philosophical and ethical dimensions of technology including the nature of technology and technological progress, the relation of humans to the technological environment, whether technology is value-laden, and the social character of technology. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4327. Bioethics.**

In this course students will study ethical issues, dilemmas, codes of conduct, and social responsibilities of health care professionals and bioresearchers. Additionally, students will critically examine issues of ethics and justice in healthcare systems, clinical practice, and biotechnology. Prerequisite: PHIL 1305 or PHIL 1320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4350. Philosophy of the Arts.**

A critical and historical analysis of the nature of aesthetic experience and creative genius. Prerequisite: three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4351. Philosophy of Education.**

Study of major philosophical theories on nature, values, and purpose of education. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4355. Philosophical Theory of Science.**

Study of the major theories concerning the nature and value of science and the scientific method. Repeatable for credit with different emphasis. Prerequisite: 3 hours of lower division philosophy, PHIL 3301, or consent of instructor. (Capstone) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4356. Philosophical Theory of Knowledge.**

A study of the major theories concerning knowledge, belief, certainty, and perception. Repeatable for credit with different emphasis. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4370. Metaphysics.**

Systematic study of metaphysical problems by examination of classical and modern texts. Topics considered will involve being and unity, mind and matter, God, causation and necessity, free will and determinism. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4371. Asian Philosophy.**

The course covers mainly Chinese and Indian philosophy, such as Confucianism, Taoism, Buddhism. How do people in the orient look at the meanings of life, the nature of the world and their place in the world? This course shall shed light on these issues. May be repeated for credit. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter



**PHIL 4372. Latin American Philosophy.**

Study of ancient Latin American thought, including Mayan, Aztec, Toltec, and Incan, pre- and post conquest Latin American philosophy, contemporary Latin American philosophy, and the thinking of Latin Americans in the U.S. Prerequisite: PHIL 1305 or permission of the instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHIL 4388. Problems in Philosophy.**

Independent study of specific problems in philosophy. Open to students on an individual or small group basis by arrangement with the Department of Philosophy. Problem area, bibliography, and study paper outline are to be approved by the instructor. Prerequisite: Three hours of lower division philosophy, PHIL 3301, or consent of the instructor. May be repeated once for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHIL 5100. Practicum in Teaching Philosophy.**

This course orients Instructional Assistants to the principles of teaching philosophy responsibly. Topics include grades, evaluation of written work, classroom management, academic values, and teaching style. This course is required for all new Instructional Assistants in Philosophy. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**PHIL 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5301. Applied Philosophy.**

Practical application of methods and teaching of philosophy to such major areas of human experience as religion, science, morality, politics, art, or literature. The study of one or more of these areas will demonstrate how philosophy contributes to the identification of issues as well as their resolution. May be repeated twice for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5302. Dialogue.**

Study of literature about the nature, purpose, and significance of dialogue along with active participation in the dialogues of the Department of Philosophy's Dialogue Series

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5303. Philosophy of Technology.**

Study of philosophical and ethical dimensions of technology including the nature of technology and technological progress, the relation of humans to the technological environment, whether technology is value-laden, and the social character of technology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5304. Philosophy of Language.**

This course will examine the nature, structure, and uses of language and its role in conceptualizing and attempting to solve perennial philosophical problems. Features of language such as meaning, reference, truth, verification, and speech acts will be investigated and applied to issues of metaphysics and ontology, epistemology, and theory construction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5305. Philosophical Writing.**

The course focuses on theoretical and methodological foundation necessary for producing philosophical works suitable for submission to conferences or journals. Students will analyze the standards for and engage in the process of developing papers for professional presentation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHIL 5306. Foundation Studies.**

Foundation Studies in Philosophy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5314. American Philosophy.**

This course is an examination of contributions of Americans to perennial philosophical issues, including the tradition of American Pragmatism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHIL 5320. History of Ethics.**

This course is a survey of major ethical theories in the Western philosophical tradition

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHIL 5322. Professional Ethics.**

Study of major topics in business and professional ethics, including what a profession is, whether it differs from business, and what is involved with moral education, social responsibilities, and ethical standards of professional and business people. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5323. Environmental Ethics.**

Study of ethical issues associated with the environment including the nature, use, preservation, and restoration of the environment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**PHIL 5324. Meaning of Life.**

Investigation of major theories of the meaning of life in Western and Eastern philosophies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5325. Philosophy of Sex and Love.**

Critical examination of major philosophical theories on sex and love from ancient to modern times

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5326. Philosophy and Sport.**

An examination of the philosophical issues that arise in sport. Topics include the social significance of sport, amateurism, the ethics of competition, the meaning of violence within sports, and other related issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5327. Medical Ethics and Bio-ethics.**

Study of ethical issues, dilemmas, codes of conduct, and social responsibilities of health care professionals and bio-researchers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5328. Major Work or Theme in Ethics.**

This course examines in detail a single significant work, theme or issue in ethics. May be repeated with a different focus

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHIL 5329. Food Ethics.**

Eating raises hard moral questions. This course explores those questions as well as potential answers. Standard topics include the nature of the food system, global hunger, food justice, consumer ethics, industrial agriculture and its alternatives, the plight of workers, overconsumption, and public health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5340. Philosophy of Logic.**

The course is an examination of the conceptual frameworks of and philosophical challenges to classical and alternative logics. Special attention will be paid to the use of the logics within metaphysics, philosophy of language, philosophy of mind, and meta-ethics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5351. Philosophy of Education.**

Study of major philosophical theories on nature, value, and purpose of education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5355. Philosophical Theory of Science.**

An examination of some of the fundamental concepts in science, including relevant evidence, induction, explanation, and commitments when accepting a scientific theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5356. Philosophical Theory of Knowledge.**

The course will consist of a close examination of topics in the philosophical theory of knowledge, such as skepticism, defining knowledge, the nature of justification, perception, and truth

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5388. Problems in Philosophy.**

Independent study open to students on individual or small group basis.

May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHIL 5395. Internship in Applied Philosophy.**

Structured practical experience in applied philosophy at a private or public setting. Supervision will be provided both by a member of the graduate faculty and by a key individual in the workplace. Permission of instructor required. Graded on a credit (C), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis on PHIL 5399B

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHIL 7323. Environmental Ethics and Sustainable Aquatic Resources.**

Examination of the ethical implications of environmental use and management policies and practices, with emphasis on sustainable aquatic resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Physical Fitness and Wellness (PFW)

**PFW 1101. Lifetime Fitness & Wellness.**

To develop knowledge, skills, and physical activity behaviors associated with personal fitness and wellness

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110A. Beginning Aerobics.**

Beginning Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110B. Intermediate Aerobics.**

Intermediate Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110C. Gymnastics.**

Gymnastics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110D. Balance & Tumbling.**

Balance & Tumbling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110E. Beginning Jogging & Conditioning.**

Beginning Jogging/Conditioning

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110F. Basic Fitness Activities.**

Basic Fitness Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110G. Beginning Weight Lifting.**

Beginning Weight Lifting

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110H. Physique Development.**

Physique Development

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1110K. Restricted Fitness Activities.**

Restricted Fitness Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1114A. Principles and Practice of Cross-Training.**

This course is designed for students prepared to undertake advanced physical training to achieve advanced fitness goals. Students perform cross-training, survey the exercise science foundations of cross-training, test and design a personalized evidence-based programs

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PFW 1125A. Wrestling.**

Wrestling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1130A. Beginning Basketball.**

Beginning Basketball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1130B. Soccer.**

Soccer

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1135A. Water Aerobics.**

Water Aerobics

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1135B. Aquatic-Conditioning.**

Aquatic-Conditioning

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140A. Football Varsity.**

Football Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140B. Basketball–Men’s Varsity.**

Basketball–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140C. Basketball–Women’s Varsity.**

Basketball–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140D. Track & Field–Men’s Varsity.**

Track & Field–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140E. Track & Field–Women’s Varsity.**

Track & Field–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140F. Volleyball – Women’s Varsity.**

Volleyball – Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140G. Baseball–Men’s Varsity.**

Baseball–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140H. Softball–Women’s Varsity.**

Softball–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1140I. Soccer–Women’s Varsity.**

Soccer–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1149. Strutters.**

Strutters

**1 Credit Hour. 1 Lecture Contact Hour. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150B. Beginning Bowling.**

Beginning Bowling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150C. Intermediate Bowling.**

Intermediate Bowling

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150D. Beginning Golf.**

Beginning Golf

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150E. Intermediate Golf.**

Intermediate Golf

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150F. Self Defense.**

Self Defense

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1150G. Restricted Leisure Activities.**

Restricted Leisure Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154. Leisure/Recreation Activities.**

Leisure/Recreation Activities

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154B. Challenge Course Facilitation.**

This course provides an overview of leadership theories and skill development for indoor/outdoor challenge course activities, with an emphasis on safety management. Students will develop the skills necessary to facilitate both high and low elements of a challenge course

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** PHED 1164

**PFW 1154C. Backpacking.**

Backpacking

**1 Credit Hour. 0 Lecture Contact Hours. 1 Lab Contact Hour.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155A. Beginning Badminton.**

Beginning Badminton

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155B. Beginning Fencing.**

Beginning Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155C. Intermediate Fencing.**

Intermediate Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155D. Advanced Fencing.**

Advanced Fencing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155E. Fencing – Epee.**

Fencing – Epee

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155G. Racquetball.**

Racquetball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155H. Beginning Tennis.**

Beginning Tennis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155I. Intermediate Tennis.**

Intermediate Tennis

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155J. Judo.**

Judo

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155K. Beginning Karate.**

Beginning Karate

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155M. Advanced Karate.**

Advanced Karate

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1155N. Pocket Billiards.**

Pocket Billiards

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1160B. Beginning Volleyball.**

Beginning Volleyball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1160C. Intermediate Volleyball.**

Intermediate Volleyball

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165A. Golf–Men’s Varsity.**

Golf–Men’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165C. Tennis–Women’s Varsity.**

Tennis–Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1165D. Golf – Women’s Varsity.**

Golf – Women’s Varsity

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164

**PFW 1165E. Varsity Cheerleaders.**

Varsity Cheerleaders

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1180J. Beginning Recreational Dance.**

Beginning Recreational Dance

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** DANC 1122**PFW 1190A. Canoeing.**

Canoeing

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190B. Beginning Swimming.**

Beginning Swimming

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190C. Intermediate Swimming.**

Intermediate Swimming

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1190F. Beginning Scuba.**

Beginning Scuba

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**TCCN:** PHED 1164**PFW 1201. Advanced Scuba Diving.**

Advanced Scuba Diving

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**PFW 1204. Underwater Photography.**

Underwater Photography

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.****Course Attribute(s):** Exclude from 3-peat Processing**Grade Mode:** Standard Letter**PFW 1301. Social and Behavioral Dimensions of Physical Fitness and Wellness.**

Students will explore the role of physical activity in a health and productive society. The course focuses on social and cultural influences on motivation, values and beliefs related to physical activity, as well as the impact of physical activity on individual, community, and population

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.****Course Attribute(s):** Soc & Behav Sciences Core 080**Grade Mode:** Standard Letter

## Physical Therapy (PT)

**PT 3400. Human Structure and Function.**

A study of the structure and function of the human body with emphasis on the skeletal, muscular, and nervous systems. Course focuses on anatomy and physiology of body systems of special interest to students preparing to be health professionals. Laboratory study of the human cadaver is included

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Lab Required**Grade Mode:** Standard Letter**PT 5115. Problems in Physical Therapy.**

An in-depth independent study of a singular problem or related problem in the rapidly changing field of physical therapy. Special emphasis will be placed on the problems' current relevance and the value to the participant. May be repeated for credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**PT 5400. Human Structure and Function.**

A study of the structure and function of the human body with emphasis on the skeletal, muscular and nervous systems. Course focuses on anatomy and physiology of the body systems of special interest to students preparing to be health professionals. Laboratory study of the human cadaver is included

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.****Course Attribute(s):** Lab Required|Leveling**Grade Mode:** Standard Letter**PT 7114. Professional Issues.**

This course serves as an introduction to the historical, current, and future issues faced by the physical therapy profession

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**PT 7115. Evidence-Based Practice.**

This course introduces the concept of evidence-based practice in physical therapy including the formulation of answerable clinical questions, methods of obtaining peer-reviewed evidence to those clinical questions, and how to critically appraise evidence once located

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.****Grade Mode:** Standard Letter**PT 7125. Clinical Decision Making I.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem-based learning environment. Students will identify complicating issues in patient care including physical, psychosocial, financial, and environmental factors as well as develop possible solutions to identified problems

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.****Grade Mode:** Standard Letter**PT 7130. Clinical Education Orientation.**

This course provides an orientation to the requirements of the clinical education course sequence including patient education as well as the legal, ethical and professional requirements of physical therapy practice

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.****Grade Mode:** Standard Letter



**PT 7135. Clinical Decision Making II.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem-based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken through the first year spring semester

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7150. Directed Clinical Experience.**

A structured clinical experience in which the student will have the opportunity to demonstrate the ability to apply the theory and clinical skills acquired during didactic course work into the clinical environment. This course will be completed in the Texas State Physical Therapy Clinic. This course is repeatable for credit

**1 Credit Hour. 0 Lecture Contact Hours. 15 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7155. Clinical Decision Making III.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken through the second year fall semester

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7165. Clinical Decision Making IV.**

This course provides a venue in which students can explore multiple aspects of patient evaluation, intervention, and outcomes in a problem based learning environment. Students will identify complicating issues through case scenarios incorporating factors from all courses taken thus far in the program

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7167. Research III in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. This course involves a literature review and identification of a practice-based research question. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7177. Research IV in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course involves development of data collection tools and strategies in a practice-based research environment. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7187. Research V in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course includes patient outcomes data collection in a practice-based research environment. Completion of the full research sequence is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7190. Independent Study in Physical Therapy.**

An in-depth independent study of a singular problem or related problem in the dynamic field of physical therapy and health care. Emphasis will be on the relevance of the problem and the value to the participant. May be repeated twice for credit

**1 Credit Hour. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7197. Research VI in Physical Therapy.**

This course is a continuation of the DPT research sequence that culminates in a supervised project to analyze outcomes in a defined area of clinical practice. The course includes completion of data collection and analysis for an oral presentation and final paper. Completion of this last course is required for graduation

**1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7231. Anatomy II – Spine.**

Study of static and dynamic aspects of the vertebral column and skull including bony landmarks, muscular, ligamentous attachments, and blood and nerve supply will be studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7241. Anatomy III - Lower Extremity.**

Study of static and dynamic aspects of the lower extremity including bony landmarks, muscular, ligamentous attachments, and blood and nerve supply will be studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7251. Anatomy IV - Upper Extremity.**

Study of static and dynamic aspects of the upper extremity including bony landmarks, muscular, ligamentous attachments and blood and nerve supply studied through lecture, lab, dissection of human cadavers, and independent study

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7263. Body Systems III – Diagnostics.**

Pharmacology, medical imaging, electroneuromyography, and other selected diagnostic tests as related to physical therapist practice. Content emphasizes expected and adverse effects of selected medications, documentation of results of medical imaging procedures, and the use of muscle and nerve integrity testing via nerve conduction velocity techniques

**2 Credit Hours. 1 Lecture Contact Hour. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7294. Special Issues in Physical Therapy.**

Provides opportunities for learning through lecture covering multiple physical therapy practice settings and areas of specialization. Also designed to provide information relevant to the licensure process, preparation for the licensure exam, and test-taking strategies to enhance performance. This course is repeatable for credit. Prerequisite: Taken in last semester of program

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7311. Anatomy I: Structural Anatomy.**

Introduction to the structure and function of the human body with emphasis on the skeletal, muscular, and nervous system. Content includes laboratory study of the human cadaver

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7312. Patient Care Skills I.**

This course introduces students to basic patient care skills and documentation. Topics emphasized include body mechanics, patient positioning, mobility, transfers, patient communication/instruction skills, and documentation format. Students will also receive an introduction to therapeutic exercise, health promotion and wellness, and infection control as well as patient rights and reimbursement issues

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7313. Body Systems I – Pathology.**

Normal and abnormal organ system function as related to physical therapist practice with emphasis on the musculoskeletal, neuromuscular, cardiovascular/pulmonary, and integumentary systems. Content includes tissue inflammation and repair, infection, degenerative processes, and changes related to processes of aging

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7326. Neuroscience I:Functional Neuroanatomy.**

Structure and function of the central, peripheral, and autonomic nervous systems in the context of lifespan human development

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7327. Research in Physical Therapy I.**

Three-course sequence introducing the physical therapy student to research and statistical methodologies. This initial course emphasizes the application of basic principles of the scientific method for: 1) critically reviewing physical therapy literature; 2) developing research proposals; and 3) identifying the tools necessary for analysis and assessment of clinical practice patterns

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7328. Examination Techniques.**

This course introduces students to basic evaluation and examination techniques used in physical therapy. Students will perform basic orthopedic, neurologic, cardiopulmonary, and integumentary evaluations in open lab and case-based learning environments. An emphasis will be placed on body mechanics, communication skills, positioning, and draping

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7333. Body Systems II – Cardiovascular/pulmonary System.**

Fitness, health, wellness, and normal and abnormal function of the cardiovascular/pulmonary and metabolic systems as related to physical therapist practice. Content emphasizes basic principles of care in respiratory therapy, chest physical therapy, electrocardiography, exercise testing, exercise prescription, and cardiac rehabilitation

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7336. Neuroscience II-Pediatrics.**

Study of typical growth and motor development and diseases, disorders, and dysfunction affecting postural control from birth to young adulthood. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7346. Neuroscience III.**

This course studies the neurologic diseases, disorders, and dysfunction affecting postural control in the adult. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7347. Research in Physical Therapy II.**

Three-course sequence introducing the physical therapy student to research and statistical methodologies. This second course emphasizes the proposal writing aspect of research, building on knowledge of research methods and statistics gained in PT 7327. Includes introduction to statistical software packages used for data-analysis and generating bibliographic material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7356. Neuroscience IV.**

This course studies the neurologic diseases, disorders, and dysfunction affecting postural control in the adult. Content emphasizes motor control, motor learning, and recovery of function in the context of relevant models of practice, models of disablement, hypothesis-oriented clinical practice, and theories of motor control

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7363. Body Systems III – Cardiovascular/Pulmonary System.**

Fitness, health, wellness, and normal and abnormal function of the cardiovascular/pulmonary and metabolic systems as related to physical therapist practice. Content emphasizes basic principles of care in respiratory therapy, chest physical therapy, electrocardiography, exercise testing, exercise prescription and cardiac rehabilitation. This course is repeatable for credit

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7370. Clinical Education I.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7428. Therapeutic Interventions.**

Provides an introduction to basic therapeutic interventions. Topics emphasized include current theory and application of tissue mobilization, light, heat, cold, ultrasound, hydrotherapy, compression, and electrical currents as well as assistive devices, traction, and isokinetics. Introduces therapeutic exercise including energy metabolism, muscle physiology, and response to exercise

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7462. Patient Care Skills II.**

This course introduces physical therapy care for medically complex patients with multi-system involvement. Content will focus on integumentary care and wound management, acute care/ICU, orthotics, and prosthetics. Complicating factors such as age, malnutrition, pain, obesity, diabetes, and other comorbidities will also be included

**4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7474. Management Issues.**

Study of basic management theories, principles, and practices as they relate to the health care delivery system, reimbursement resources and issues, and internal and external forces that impact health care delivery

**4 Credit Hours. 4 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PT 7480. Clinical Education II.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting. Prerequisites: good academic standing

**4 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7481. Clinical Education III.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting. Prerequisites: satisfactory progress in PT 7480, and good academic standing

**4 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PT 7539. Musculoskeletal I – Spine.**

Study of static and dynamic aspects of the vertebral column and skull studied through lecture, lab, literature review, and independent study. Knowledge and skill will be integrated to identify problems, prognosis, functional goals, and to develop comprehensive intervention programs related to the spine, including preventative health planning

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7549. Musculoskeletal II - Lower Extremity.**

Study of static structural and dynamic aspects of the lower extremity. Emphasizes the effects and affects of forces on function. Clinical decision-making involving the integration of knowledge and skill to identify problems, establish goals, and develop comprehensive physical therapy programs related to the region of study

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7559. Musculoskeletal III - Upper Extremity.**

Study of static structural and dynamic aspects of the upper extremity. Emphasizes the effects and affects of forces on function. Clinical decision-making involving the integration of knowledge and skill to identify problems, establish goals, and develop comprehensive physical therapy programs related to the region of study

**5 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**PT 7690. Clinical Education IV.**

A full-time clinical education experience in which the student will apply the theory and clinical skills acquired during previous didactic course work in the clinical setting

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Physics (PHYS)

**PHYS 1110. Elementary Physics Laboratory.**

This course explores and illustrates some of the basic principles covered in PHYS 1310 and PHYS 1320. This lab should be taken as the second of two courses, PHYS 1310 and PHYS 1320

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1105

**PHYS 1115. General Physics I Laboratory.**

First of two laboratory courses in General Physics for science-related majors. Course introduces students to the basics of measurement.

Topics cover mechanics and heat. Prerequisite or Corequisite:

PHYS 1315

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1101

**PHYS 1125. General Physics II Laboratory.**

Second of two laboratory courses in general Physics. Course introduces the students to experimental measurements and demonstration of principles of electricity, magnetism, optics, modern physics, electromagnetic waves

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1102

**PHYS 1140. Introductory Laboratory in Astronomy.**

An introduction to the constellations, the uses of telescopes, and other material relating to the study of stars and planets. This course is designed to be taken with PHYS 1340 or PHYS 1350 or those students desiring a laboratory course

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1111

**PHYS 1310. Elementary Physics.**

A non-mathematical survey of mechanics, properties of matter, heat and sound. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (PHYS 1110). PHYS 1310 and PHYS 1320 are designed for the liberal arts student. The order in which they are taken is not important. They are not recommended for pre-engineering students or majors and minors in science. The laboratory experience is recommended with the second course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1305

**PHYS 1315. General Physics I.**

The first course in a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of mechanics and heat. Designed for students whose program requires technical physics, but who are not pre-engineering students or majors or minors in physics. Prerequisite: MATH 1315 with a grade of "C" or higher. Prerequisite or Co-requisite: PHYS 1115. MATH 1317 is recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** PHYS 1115

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1301

**PHYS 1320. Elementary Physics.**

A non-mathematical survey of electricity, magnetism, light, relativity, and atomic and nuclear physics. These topics are described in a conceptual way with applications relating to the world around us. The laboratory experience may be obtained in a separate one-hour credit lab (PHYS 1110). PHYS 1310 and PHYS 1320 are designed for the liberal arts student. The order in which they are taken is not important. They are not recommended for pre-engineering students or majors and minors in science. The laboratory experience is recommended with the second course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1307

**PHYS 1325. General Physics II.**

Second course in a two semester sequence which is a survey of the basic laws and principles of physics and includes the topics of waves, light, electricity and magnetism. Designed for students whose program requires technical physics, but who are not pre-engineering students or majors or minors in physics. Prerequisites: PHYS 1315 and MATH 1315 with a grade of "C" or higher. MATH 1317 and concurrent enrollment in PHYS 1125 are recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Co-requisite(s):** PHYS 1125

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1302

**PHYS 1340. Astronomy: Solar System.**

A study of the solar system. Topics included are a study of the sun, the planets and their satellites, the comets, and other components of the solar system. Some aspects of telescopes and ancient astronomy will be included also

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1312

**PHYS 1350. Astronomy: Stars and Galaxies.**

A study of the universe beyond the solar system. Topics included are a study of the stars and star clusters, nebulae, galaxies, and an introduction to some aspects of cosmology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030

**Grade Mode:** Standard Letter

**TCCN:** PHYS 1311

**PHYS 1430. Mechanics.**

This course covers the principles of classical mechanics through problem solving and laboratory investigations. PHYS 1430, PHYS 2425, and PHYS 2435 are designed for students majoring and minoring in physics and/or other disciplines within the college of science and engineering. Credit for both PHYS 1315 and PHYS 1115 and PHYS 1430 cannot be given. Pre or Co-requisite: MATH 2471 with a C or higher or concurrent enrollment in MATH 2471

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2425

**PHYS 2425. Electricity and Magnetism.**

This course is a study of the field of electricity and magnetism for physics majors and minors. PHYS 1430, PHYS 2425, and PHYS 2435 are designed for those students majoring or minoring in physics and for pre-engineering students. Credit in both PHYS 1325 and PHYS 1125 and PHYS 2425 cannot be given. Prerequisites: PHYS 1430 and MATH 2472 with grades of C or higher

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Life & Phys Sciences Core 030|Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2426

**PHYS 2435. Waves and Heat.**

This course is a study of the fields of wave motion, sound, light, and heat at a beginning level for physics majors and minors. Prerequisites: PHYS 1430 and MATH 2471 with grades of C or higher. Co-requisite: MATH 2472

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** PHYS 2427

**PHYS 3210. Physics Cognition and Pedagogy.**

This course is an introduction to physics-specific pedagogy and the methods and results of physics education research (PER). Students will investigate relevant literature in PER and cognitive science, engage in discussions about physics teaching and learning, and reflect on their own teaching practice in the role of Physics Learning Assistants. (WI)

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3301. Musical Acoustics.**

A survey of the physics of sound and acoustic measurement. Special emphasis will be placed on sound production, propagation, and perception as applied to music. Prerequisites: PHYS 1410 and PHYS 1420 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3311. Mechanics I.**

This course discusses the fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. Topics included are advanced problem solving strategies for systems with position and velocity dependent forces, simple harmonic oscillators, and non-inertial reference frames. Prerequisite: PHYS 2435 with a C or higher. Co-requisite: PHYS 3320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3312. Modern Physics.**

This course is an introduction to the foundations of modern physics, including the following topics: relativistic mechanics, kinetic theory of matter, quantization of charge, light and energy, the atom, wave nature of particles, and the Schroedinger equation. Prerequisite: PHYS 2435 with a C or higher. PHYS 2425 with a grade of C or higher, or concurrent enrollment allowed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3315. Thermodynamics.**

This course is a fundamental study of thermodynamics and statistical mechanics. Prerequisites: MATH 3323 and (PHYS 2435 or PHYS 1325 and PHYS 1125 or (PHYS 2425 and ENGR 2300))

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3320. Introduction to Mathematical Physics.**

An introduction to the mathematical methods of theoretical physics with emphasis on the vectorial-functional approach emphasized in current research literature. Applications will be made to certain fundamental problems of mechanics and electromagnetic field theory. Prerequisites: PHYS 2425 and MATH 3373 with grades of C or higher; MATH 3323 with a grade of C or higher, or concurrent enrollment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 3411. Advanced Physics Laboratory.**

Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics. Prerequisites: PHYS 2425 with a grade of C or higher; PHYS 3312 with a grade of C or higher, or concurrent enrollment. (WI)

**4 Credit Hours. 2 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3416. Applied Electronics.**

This Laboratory/lecture course is an introduction to electronic test bench methods for the construction, operation and analysis of important DC/AC circuits utilizing resistors, capacitors, diodes, BJTs, FETs, and OpAmps. The behavior of the circuits will be modeled in SPICE. Elementary semiconductor device physics and microfabrication methods will be discussed. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 3417. Optics.**

This course is a one-semester survey of geometrical and physical optics accompanied by laboratory experience. Topics covered include electromagnetic waves and their propagation, geometrical optics, polarization, interference, diffraction, Fourier optics, and holography. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 4121. Undergraduate Research.**

This course represents a student's research project in physics to be carried out under the supervision of a faculty member. The student must contact a faculty member in advance to arrange the topic and specific course objectives. This course may be repeated for credit. Instructor's approval required

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4221. Undergraduate Research.**

This course represents a student's research project in physics to be carried out under the supervision of a faculty member. The student must contact a faculty member in advance to arrange the topic and specific course objectives. This course may be repeated for credit. Instructor's approval required

**2 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**PHYS 4305. Statistical Physics.**

This course will examine the physics that describes the equilibrium thermal properties of systems. Statistical physics explains the microscopic properties of systems that give rise to their measurable macroscopic behavior. This includes thermodynamic properties, transport processes, fluctuations from equilibrium, phase transitions and critical phenomena, and quantum fluids. Prerequisites: PHYS 3312, PHYS 3320, and MATH 3323 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4310. Electromagnetic Field Theory I.**

An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magneto static energy, and magnetic properties of matter. Prerequisites: MATH 3323, MATH 3373 and PHYS 3320 with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4311. Condensed Matter Physics.**

Application of physics principles to solid materials. Topics include crystal structure and the reciprocal lattice, including x-ray diffraction, crystal binding and elastic properties, lattice vibrations, energy bands, semiconductors and metals. Prerequisites: PHYS 3312 and PHYS 3320 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4312. Quantum Mechanics I.**

An introductory course in quantum mechanics. Topics include mathematical foundations, fundamental postulates, time development, and one dimensional problems. Prerequisites: MATH 3323, PHYS 3312, and PHYS 3320 with grades of C or higher; and six additional hours of advanced physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4313. Quantum Mechanics II.**

An advanced course in quantum mechanics intended as an elective for students intending to pursue graduate study in physics. Topics include angular momentum, three dimensional problems, matrix mechanics, and perturbation theory. Prerequisite: PHYS 4312 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4314. Mechanics II.**

Fundamentals of Classical Mechanics focusing on the physical description of the behavior of single and multiple particle systems. Topics include central force motion, rigid body rotation, and coupled oscillations. This course is intended as an elective for students intending to pursue graduate study in physics. Prerequisites: PHYS 3311 and MATH 3323 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4315. Electromagnetic Field Theory II.**

An introduction to the electromagnetic field theory of classical physics for time varying fields. Topics included will be electromagnetic induction, time varying electric and magnetic fields, Maxwell's equations, electromagnetic energy, electromagnetic waves and radiation, and a brief introduction to some specialized topics. Prerequisite: PHYS 4310 with a C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 4317. Computational Physics.**

Introduction to computational techniques for problem-solving and research beyond the standard techniques of most physics courses. Numerical, symbolic, and simulation methods applied to modern physics using advanced mathematical software and a highlevel programming language. Prerequisites: PHYS 3320 and six additional hours of advanced physics or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 4320. Selected Study in Physics.**

Topics are chosen in theoretical and experimental areas of current interest in physics with specific topic to be discussed agreed upon prior to registration. May be repeated once with different emphasis and professor for additional credit. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4321. Undergraduate Research.**

A research project in physics to be carried out under the supervision of a faculty member by upper division physics majors. Student must contact a faculty member in advance to arrange topic and specific course objective. Course may be repeated only as an elective towards the BS or BA in physics. Prerequisite: Instructor approval

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 4340. Materials Physics Laboratory.**

A laboratory based course introducing a broad array of materials synthesis and characterization methods. The specific subjects will be coordinated with topics of current interest in the literature and will be chosen by mutual consent of the student and faculty advisor. Prerequisites: PHYS 3416, PHYS 3411, and PHYS 4311. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 4350A. Thin Film Photovoltaic Devices.**

This course is a survey of the Physics of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, and losses. Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 4350B. Relativity.**

This course includes a review of Special Relativity, an introduction to the mathematics of tensor calculus and differential geometry, and such topics from General Relativity as the Schwarzschild solution and black holes, tests of General Relativity, cosmological models, and applications of relativity in the Global Positioning System (GPS). Prerequisites: PHYS 2425 and PHYS 2435 with grades of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 4350C. Physics Cognition and Pedagogy II.**

This course addresses historical, philosophical, and cognitive perspectives on the learning, teaching, and discovery of physics, including results from contemporary research on learning. It is recommended for students pursuing teacher certification. Prerequisite: PHYS 3210 and PHYS 3312 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**PHYS 5100. Professional Development.**

This course covers topics related to teaching, research, and employment responsibilities. The completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate degree credit, is repeatable with different emphasis, and is graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**PHYS 5110. Seminar in Physics.**

A course designed to acquaint the graduate student with current research areas in physics. May be repeated twice for total of three semester hour's credit

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5195. Fundamentals of Research.**

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**1 Credit Hour. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5295. Fundamentals of Research.**

This course is designed to acquaint the graduate student with materials and methods of physics research. It is open to graduate students on an individual basis by arrangement with the department of Physics. This course may be repeated with prior approval of the department. Instructor's approval required

**2 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PHYS 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5301. Classical Mechanics.**

This course discusses the fundamentals of classical mechanics focusing on the physical description of the behavior of single and multiple particle systems. This is a graduate leveling course and does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5302. Electricity and Magnetism.**

An introduction to the electromagnetic field theory of classical physics for static fields. Topics included will be the electrostatic field, polarization and dielectrics, electrostatic energy, magnetic field of steady currents, magneto static energy, and magnetic properties of matter. This is a graduate leveling course in Electricity and Magnetism (stacked with PHYS 4310). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5303. Quantum Mechanics.**

An introductory course on quantum mechanics. Hamiltonian operator and Schroedinger equation, harmonic oscillator, matrix formulation of quantum mechanics, uncertainty principle, potential barrier problems, and the hydrogen atom. This is a graduate leveling course in Quantum Mechanics (stacked with PHYS 4312). This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**PHYS 5312. Quantum Mechanics II.**

A study of quantum mechanics including combination of two or more quantum mechanical systems, addition of angular momentum, time independent perturbation theory, and time dependent perturbation theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5313. Mathematical Methods of Physics.**

This course is a survey of mathematical methods of physics as they apply to areas in classical mechanics, quantum mechanics, electrodynamics, and nuclear physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5314. Statistical Mechanics.**

A study of statistical mechanics including a brief review of equilibrium thermodynamics, fundamentals of statistical mechanics, transport processes, fluctuations from equilibrium, phase transitions and critical phenomena, and quantum fluids

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5320. Solid State Physics.**

A study of electronic properties of materials using classical and quantum mechanical models, simple band theory of a solid and some device. Also included is an introduction to band theory applied to other properties of solids such as magnetism, dielectric functions, transport properties, and superconductivity. Prerequisites: PHYS 5312

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5322. Semiconductor Device Microfabrication.**

An in-depth overview of the physics and technology of VLSI and ULSI silicon semiconductor device microfabrication. Topics including electronic material preparation, thin film growth, silicon oxidation and etching, lithography processing, impurity diffusion, ion implantation and yield analysis will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5324. Thin Film Materials Laboratory.**

An intensive laboratory introduction to the physics and materials fabrication and characterization. At the discretion of the instructor, laboratory projects introducing techniques such as sputtering, furnace/oven preparation, scanning probe microscopy, scanning electron microscopy, energy dispersive spectroscopy, four point probe transport methods, magnetometry and x-ray analysis may be offered. This course is preparatory for students seeking to apply for an experimental materials physics master's thesis project. This course may be repeated with permission from the instructor

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5326. Electrical Characterization of Materials and Devices.**

A laboratory/lecture course introducing electric characterization methods important to semiconductor materials and devices. Various measurement techniques and methods will be reviewed. Students will learn to work with industrial equipment. Prerequisite: PHYS 2425

**3 Credit Hours. 0 Lecture Contact Hours. 9 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5327. Semiconductor Device Physics.**

The application of solid state physics for describing important examples of thin film device operation with a special emphasis on semiconductor devices. Additional topics may include photon and phonon effects on electronic properties, quantum phenomena, many body effects in solids, carrier transport properties, micro-electromechanical systems, and materials interface issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5328. Advance Solid State Physics.**

Review of models of a solid and energy band theory. Additional topics may include interaction of electromagnetic waves with solids, lattice vibrations and phonons, many body effects in solids, device physics, quantum phenomena, carrier transport properties, current device configurations, and materials interface problems. Prerequisite: PHYS 5320

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5329. Microelectronics Reliability Physics.**

An introduction to the physical mechanisms governing the important failure modes of semiconductor integrated circuit devices and other emerging thin film devices. The application of materials physics characterization techniques for detecting the signatures of these failure mechanisms will also be reviewed. Prerequisites: PHYS 5324 and PHYS 5328, or instructor permission

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5331. Electromagnetic Field Theory.**

Introduction to electrodynamics at the graduate level. Topics include applications of special functions to problems in electrostatics and magnetostatics, time varying fields, Maxwell's equations, electromagnetic energy, Maxwell's stress tensor, radiation, and special theory of relativity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5340. Advanced Dynamics.**

Classical mechanics at an advanced level. Topics covered may include special relativity in classical mechanics, Hamilton equation of motion, canonical transformations, and Hamilton-Jacobi theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5350A. Thin Film Photovoltaic Devices.**

This course is a survey of the Physics of photovoltaic devices with emphasis on device physics including the photovoltaic effect, photon absorption, electrons and holes, generation and recombination, the pn-junction, charge separation, monocrystalline solar cells, thin film solar cells, and losses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350B. Relativity.**

This course includes a review of Special Relativity, an introduction to the mathematics of tensor calculus and differential geometry, and such topics from General Relativity as the Schwarzschild solution and black holes, tests of General Relativity, cosmological models, and applications of relativity in the Global Positioning System (GPS)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350C. Characterization of Materials.**

This course covers skills and knowledge required for microscopy methods including optical microscopy, scanning electron microscopy, scanning tunneling electron microscopy, atomic force microscopy, and confocal microscopy. It covers x-ray and neutron diffraction techniques including structure analysis, powder and glancing angle diffraction, pole figure, texture analysis, and small angle scattering

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5350D. Cognitive Foundations of Physics Education Research.**

This course is an introduction to research methods and theories in physics education research. Topics include conceptual metaphor and blending, cognitive linguistics, dual-process theory, and historical issues from the intellectual development of physics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PHYS 5370. Problems in Advanced Physics.**

Open to graduate students on an individual basis by arrangement with the Department of Physics. May be repeated with prior approval of the department

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5395. Fundamentals of Research.**

Course is available to graduate students only at the invitation of the department. May be repeated with prior approval of the department

**3 Credit Hours. 0 Lecture Contact Hours. 6 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PHYS 5398. Industry Internship.**

Supervised work experience in an appropriate high tech industry. Students will be required to keep a daily journal and make a final presentation (both written and oral) describing their accomplishments. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in PHYS 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5404. Experimental Methods.**

Experiments in modern physics, with emphasis on demonstrating quantum effects and introducing nuclear physics

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**PHYS 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PHYS 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Political Science - Undergraduate and Graduate (POSI)

**POSI 2310. Principles of American Government.**

A survey of the principles of political science, of the American system of government, and of the origins and development of the constitutions of the United States and Texas. Satisfies the legislative requirements for teacher certification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070

**Grade Mode:** Standard Letter

**TCCN:** GOVT 2306

**POSI 2320. Functions of American Government.**

This course is a study of functions performed in the American system of government, both national and state, within the framework of the U.S. and Texas Constitutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Govt/Pol Science Core 070

**Grade Mode:** Standard Letter

**TCCN:** GOVT 2305

**POSI 3300. Basic Political Ideas.**

Introduction to the fundamental ideas of the Western political tradition including conservatism, liberalism, socialism, democracy, and totalitarianism. This course (or 3301) is required of all Political Science majors and minors, and it serves as a co-requisite for other advanced courses in Political Science

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3301. Basic Political Institutions.**

The study of political institutions emphasizing the fundamentals of political science research and analysis, the tools used in bibliographical research, and methods of locating and presenting data for comparing political institutions. This course is required of all public administration majors and is a co-requisite for other advanced political science courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3305. The American Founding.**

An examination of the origins, nature, and foundations of the American Constitutional system with special emphasis on the Federalist/Anti-federalist debates and the writing of the constitution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**POSI 3306. Religion and American Public Life.**

An examination of the ways in which religious beliefs and groups have influenced the course of American democratic experience; and the on going debates in constitutional law and democratic theory regarding the proper role of religion in American public life. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3307. Parties and Party Politics.**

The American political system, including its history and organization, suffrage, nominations and elections, campaigns, and the related areas of public opinion and pressure group activities. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3308. Congress and the Legislative Process.**

The dynamics of lawmaking and legislative politics in the United States. The structure, party organization, rules of procedure, and actual operation of the Congress and of selected state legislatures (including Texas) are analyzed, compared, and evaluated. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3309. The American Presidency.**

A comprehensive examination of both the presidency and the men who have held it. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3310. Constitutional Law: Basic Structures and Principles.**

A case study approach to an analysis of fundamental principles of governmental structure with an emphasis on the office and powers of the President and inter-governmental relationships in the main body (Articles I through VII) of the U.S. Constitution

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3311. Constitutional Law: Individual Liberties.**

An examination of that area of Constitutional interpretation commonly known as Civil Liberties or the relations between the individual and the government. (May be used to satisfy Group II requirements)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3314. State and Local Government.**

A study of the organization, functions, and powers of state, county, and municipal government in the United States with particular reference to patterns of such governments in Texas. (May be substituted for POSI 2310) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3316. Introduction to Public Administration.**

The organization and management of the machinery for executing public policies, with particular emphasis upon the Federal bureaucracy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3318. Public Personnel Administration.**

A study of public personnel systems in the United States with major concentrations on the national civil service system. Special emphasis is given to current research in the areas of leadership, informal organization, motivation, and small group theory. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3319. Metropolitan Politics.**

An examination of the political institutions and processes of urban and suburban America, including such topics as urban sprawl, reform movements, ethnic politics, and city-county consolidation. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3320. Comparative Public Administration.**

A survey of the field of Public Administration that will emphasize those aspects of administration that are common to all administrative systems. (May be used to satisfy Group IV requirements.) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3322. Introduction to International Studies.**

This "core seminar" identifies critical interdisciplinary questions that will be examined in all courses in the International Studies Program. Required of all majors and minors in International Studies. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3325. Economic Development in Latin America.**

This course examines the economic history of and current obstacles to economic development in Latin America. It explores the Import Substitution Industrialization era, the debt crisis of the 1980s, free market economics, and the nature and revival of economic populism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3328. Public Finance Administration.**

Focuses on planning, organization, and implementation of budgeting including fund accounting, auditing, and debt management in the public sector. Prerequisites: MATH 1315 or higher with a grade of C or better, POSI 3301 and POSI 3316 with a grade of C or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3331. American Political Thought.**

The development of American political ideas from the colonial period to the present. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3332. Ancient and Medieval Political Thought (Greeks to 1600).**

A study of the masters of classical and medieval political theory from Plato to Machiavelli. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter



**POSI 3333. Modern Political Theory (1600-1900).**

The development of modern political ideas; the meaning and relationships of the significant ideologies of our time; democracy, capitalism, the welfare state, socialism, fascism, and totalitarian communism. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3334. Contemporary Political Theory.**

A study of selected theories, ideologies, and movements in 20th century political theory. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3335. Comparative Politics.**

This course is a comparative study between two or more political systems, their institutions, and processes, including the origin, development, geographical units, forms, sources of authority, powers, purposes, functions, and operations of government

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3336. Civil-Military Relations in Comparative Perspective.**

This course is intended to serve as an intensive exploration of the important subject of civil-military relations. Students will critically examine the primary positive and normative theories of civil-military relations. They will then investigate the state of civil-military relations in the United States and around the globe

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 3337. Politics of Modern Southeast Asia.**

This course is a comparative analysis of the political and economic significance of Southeast Asia and will include an empirical and conceptual examination of the political dynamics of the region

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3340. Urban Policy and Administration.**

The purpose of this course is to provide a critical introduction to the key aspects of urban administration and policy. Students will build an understanding of how urban administration practices and policies influence the form and function of American cities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 3377. Analytical Techniques.**

Examines basic scientific methods, including problem definition, hypothesis testing, explanation and prediction, and theory construction. Statistical analysis is applied to problems in political science.

Prerequisites: MATH 1315 or higher with a grade of "C" or better, POSI 3301 and POSI 3316 with a grade of C or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4301. Politics in Film.**

This course will expose the students to films which explicitly address political issues such as racism in the United States, the conflict between public duty and private conscience, and politics and media manipulation, and the role of perception in all the actions people take. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4302. Legal Theories and Research.**

This course examines the American Legal System at both the state and federal levels involving civil and criminal procedure. Emphasis is on the process of these systems and the framework within which disputes are resolved. Students will become familiar with legal research methods to better understand the composition of legal options

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4303. Civil Law in American Society.**

This course considers the structure and functions of government together with the law regulating private social relations, i.e., contract law, property law, tort law, and the causal relations between legal policies and societal goals and regulations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4304. Issues in Law and Public Policy.**

This course examines contemporary legal issues by focusing on their relationship to public policy. Selected topics will vary, i.e., AIDS, abortion, affirmative action/reverse discrimination, capital punishment, environmental protection, euthanasia, and surrogate motherhood. In connection with these controversial issues we will address: (1) alternative views; (2) social consequences; and (3) political responses to and legal issues resulting from alternative positions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4311. The Supreme Court and the Judicial Process.**

An intensive examination of the judiciary, focusing upon the politics of judicial selection and the decision-making process of the judiciary as well as the position of the judiciary in the entire political process. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4313. Islamic Law and Politics.**

This course is a study of the law, origins, development, divisions, and politics of Islam. Special emphasis will be given to law, political thought, history, and the culture of the Middle East. Topics covered include Muslim law and political institutions; the Arab and Persian roles in Islam; the Islamic Community as a political system; major points of the Islamic faith and their political significance and the political and historical significance of Muslim mysticism. (This course may be used to satisfy Group I requirements.) (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4314. Revolution and Nationalism.**

This course examines the phenomena of modern revolution and nationalism focusing on different countries in various geographical areas such as the Middle East, Latin America, and others. This course is repeatable for credit twice with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4315. The Arab-Israeli Conflict.**

Origins and development of the Arab-Israeli conflict: Jewish and Palestinian nationalism; regional, international and religious dimensions; and the changing social and political character of Israel and the Palestinian community. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4320. Issues and Interest Groups: Power and Pressure in America.**

An examination of selected issues at the state and national level and the interest groups which attempt to influence governmental decisions about them. The goal of the course is to promote a better understanding of the process of government and an informed opinion on the question, "Is there a Public Interest?" Prerequisite: POSI 2310. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4322. Public Policy Formulation.**

Intensive analysis of theories and processes of both policy formation and policy enforcement in the American administrative system, emphasizing the regulatory function. Prerequisite: POSI 2310 and POSI 3301. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4326. Issues in World Politics.**

This course is designed to acquaint the student with major issues in world politics and major concepts in international relations and comparative politics. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4327. Theories of International Politics.**

This course focuses on theories and concepts in the study of international relations. Major theoretical works and illustrative case studies will be critically examined. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4328. The Holocaust.**

An undergraduate seminar on The Holocaust. Among the topics covered are: efforts to understand The Holocaust; the evolution of anti-Semitism in Germany; ordinary Germans and ordinary Poles and The Holocaust; and representing The Holocaust in fiction, film, and poetry. (may be used to satisfy group IV requirement.) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4330. Women in Politics.**

A study of the role of women in political life. The course will examine women's influence on politics as well as how various public policies affect women. Topics may include feminism, electoral politics, political representation, and the internal politics of women's groups. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4331. Minority Politics.**

This course examines and analyzes the political participation of American minorities (Blacks, Hispanics, women, and other minorities) in the American political system and the impact of various public policies on minority groups. The course will emphasize the following topics: electoral participation; public policy participation, representation and implementation; protest politics; and political behavior. Some reference will be to Texas and the Southwest. May be repeated once with different emphasis. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4335. Politics and Personality.**

An introduction to the relationship between political behavior and human motivation. Topics include psychological perspectives and political theory; personality and political orientation; the political personality, and the politically relevant insights into these areas offered by fiction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4336. Campaigns and Elections.**

An examination of the dynamics of American political campaigns and elections, including an analysis of federal and state elections as well as voting behavior and party and interest group influence. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337A. Texas Politics.**

This course focuses on the history, culture, institutions, issues, and policies of the Texas political systems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337B. The Politics of the American Working Class.**

This course engages students in an intensely focused examination of the social, cultural, and political reasons why Americans vote at a lower rate than do citizens of most other Industrial Democracies. We will examine policy consequences of this phenomenon and consider whether or not policy change is warranted. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337C. Media and Public Opinion.**

This class will cover how the media influences public opinion and voting behavior. Specific topics include media functions in campaigns and elections, media bias, new media, and media effects on political attitudes and behaviors. This course uses lectures, discussions, with active participation, and group projects. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337D. The Politics of Dystopia.**

This course explores the idea of political utopia and the many ways in which it might be twisted into a darker, less-than-perfect society. Content will focus in particular on the relationship between fictional dystopias in novels and films, and political reality in 21st-century America. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337E. Ethics in American Government.**

This course examines key ethical and cultural challenges in American government, including the exploration of values, ethical analysis, and democratic process. Several specific policies, including health care, environment, and national security will be analyzed. The course focuses on individual and institutional corruption and strategies for reform. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4337F. The Politics of U.S. Economic Issues.**

This course will introduce the political economy issues which have dominated politics in the U.S. including the constitutional, partisan, and sectional aspects of such issues as: Bank of the United States, slavery, gold standard, the Great Depression, banking, income distribution, and the Affordable Care Act. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4338. Government and Politics of Latin America.**

A comparative analysis of political systems in Latin America, examining the impact of sociocultural and economic factors on political attitudes and behaviors. Special emphasis on Mexico, Cuba, and Brazil. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4340. Government and Politics of Europe.**

An in-depth analysis of the political systems of the states of Europe and the emerging European Union, with special emphasis on Great Britain, France, Italy, and Germany. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4341. Government and Politics of Russia.**

A comprehensive study of the domestic and foreign policy of the former Soviet Union, examined both historically and analytically. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4345. American Foreign Policy.**

This course focuses on "how foreign policy is made" or the decision-making process. The major institutions involved in the decision-making process as well as the ideological setting in which they function are examined. Among the topics studied are the foreign policy roles of Congress, Interest Groups, the State Department and the Secretary of State, the Military Establishment, the Intelligence Community, the Presidency, and Public Opinion. Specific "cases" or major foreign policy decisions will be examined illustrate the various roles of these institutions in the decision-making process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349A. Spanish Democracy in Comparative Context.**

An examination of the Politics of Democratic Consolidation in Southern Europe using Spanish Political Institutions and Behavior as a case study. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349B. Model International Institutions Competition.**

This course is an applied introduction to diplomacy focusing on issues relevant to international institutions, in which students will engage in debate and role-playing. Students are responsible for costs incurred to attend mandatory workshops and model international competitions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**POSI 4349C. Liberty and Property: A Comparison of Australia and the United States.**

This course studies the history and politics of property rights in Australia and the United States. It will be taught simultaneously with a course offered at Macquarie University in Sydney, Australia. Students in both universities will read the same material and engage in discussion with Australian faculty and students via the Internet. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349D. Organization of American States.**

This course is an introduction to major issues of the OAS including its functions and limitations and the evolving relations among member-states. Students are responsible for travel costs and expenses incurred to attend mandatory parliamentary procedure workshops and model OAS competitions. (May be used to satisfy Group V requirements). (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349E. Politics of Mexico.**

This course will introduce students to modern Mexican politics. We will explore the historical, economic, and social factors that have influenced the politics of Mexico, beginning with the revolution and continuing to the present. We will assess the strength of Mexico's political institutions, its party system, and its ability to maintain democracy. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4349F. Politics of Democratization in Developing Countries.**

A critical examination of the third wave of democratization in the developing world and the multiple challenges faced these neodemocracies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**POSI 4350. Government and Politics of Asia.**

A critical analysis of political development in the nations of Far East and South Asia, concentrating on China, Japan, and India. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4351. African Politics.**

A comprehensive examination of contemporary political events in Africa with special attention to Angola, South Africa, and Nigeria. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4354. The Politics of Extremism.**

This course is an undergraduate seminar on international terrorism and extremist politics in America. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4356. International Law.**

Examines the nature, sources, and development of international law as both a legal and political process. The law of treaties, acquisition of personality, territorial jurisdiction, the law of the sea, land and air, diplomatic immunities, nationality, state responsibility, human rights, and the law of war will be emphasized. Students will research contemporary international problems and participate in a Moot International Court of Justice (ICJ) proceeding. (May be used to satisfy Group III requirements.) (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4357. International Organization.**

This course will examine the historical roots of international organizations, the development of the League of Nations, and the evolution of the United Nations System. The nature, process, and function of contemporary international organization will be analyzed. The role of non-governmental organizations, transnational organizations, and multi-national corporations will be assessed. The course will include a mix of lecture, discussion, and model sessions. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4358. United States-Latin American Relations.**

Examines policies, problems, and attitudes, together with detailed analysis of U.S. relations with selected countries. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4359. Politics of International Economic Relations.**

This course examines the institutional structure of interstate economic relations, trade and monetary regimes, foreign investment, foreign aid, and development policies of governments. Prerequisite: POSI 3322. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4361. Administrative Law.**

Course stresses the legal principles and practical doctrines involved in the work of administrative tribunals vested with quasi-legislative or quasi-judicial powers or both. Primary focus on development, practice, and procedures of federal administrative agencies. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4362. Government and American Business.**

An overview of the relationship of American business to public policy as a whole. Focus is on several factors affecting the relationship between the public and private sectors including political ideology and culture, pluralism, political party development, political business cycles, monetary policy, and the domestic economy and political accountability. May be repeated once with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4367. International Conflict and Security.**

Examines historical and spatial patterns of conflict (including war, terrorism, and economic coercion) from Realist, Idealist, and Marxian schools of thought. The course will also examine strategies for conflict prevention and resolution such as deterrence, armscontrol, collective security, and "building democracy." (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter



**POSI 4379. Independent Study.**

Independent reading and/or research on various problem areas of political science. Instructor will approve specific problem area, bibliography, and study paper outline. May be repeated once with different subject matter and instructor. No more than six semester hours credit in meeting degree requirements. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4380. Internship in Government.**

The student will participate in the ongoing work of a selected governmental unit. A research paper dealing with the internship experience written under the direction of a faculty member will be required. This course may be repeated one time for additional internship credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4381. Internship in Public Administration.**

Students in the Bachelor of Public Administration (BPA) degree program will participate in the ongoing work of a public or non-profit agency. A research paper dealing with the internship experience written under the direction of a faculty member will be required. May be repeated once

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 4397. Research in Public Administration.**

This course is designed to assure familiarity with the basic concepts and approaches used in the study of public administration. Students will learn to identify, locate, and employ resources to assist in understanding public administration at all governmental levels. Course may be taken as a substitute for POSI 4381

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 4398. Practicum in Political Science: Concepts, Resources, and Applications in the Study of Politics.**

This course is designed to assure familiarity with the basic concepts and approaches used in the study of politics. Students will learn to identify, locate, and employ resources to assist in understanding politics at local, state, national, and international levels. Model Congress or U.N., visits to local government offices and councils, moot court, critiques of political propaganda films, and simulations in international relations are some of the applied methods of studying politics that students will learn. This course is required of all B.A. students seeking a teaching certificate in Political Science; it may be taken as a substitute for POSI 4399 for Political Science non teacher certification majors. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4399. Senior Seminar in Political Science.**

Seminar devoted to intensive reading, research, writing, and discussion focusing on different sub-fields in the discipline taught by appropriate faculty. Students in consultation with faculty in their area of interest should select a particular sub-field seminar in accordance with their needs and professional objectives. Required of all majors and must be taken in the student's junior or senior year. Other interested students may take the course with the consent of the chair and instructor. May be repeated with different instructor and approval of chair. Prerequisites for the Senior Seminar are all of the core courses in Political Science or approval of the Department Chair. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**POSI 4680. Internship in Government.**

The student will participate full time (40 hours per week) in the ongoing work of selected governmental units. A research paper dealing with the internship experience written under direction of a faculty member will be required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**POSI 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**POSI 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**POSI 5345. Conceptual Foundations of Government Information Systems.**

A study of the theoretical assumptions, conceptual foundations, and design of government information systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 5346. Technology of Government Information Systems.**

A study the technological foundations and implications of computer-based government information systems in government

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**POSI 5351. Seminar in American Political Institutions.**

An overview of American political institutions including the presidency, Congress, judiciary, and bureaucracy which examines the history, structure, and relationship of these institutions of one another and to American politics in general

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**POSI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**POSI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**POSI 7310. Resolution of Disputes Involving Aquatic Resources.**

Analysis of historically significant environmental disputes affecting aquatic resources and establishing precedents for resolution of subsequent disputes. Techniques for resolving environmental disputes (e.g., litigation, arbitration, mediation, negotiation) and how science and scientists are used in each procedure. Design of systems for using dispute resolution procedures in appropriate sequence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Portuguese (POR)

**POR 1410. Beginning Portuguese 1.**

Introduction to listening, speaking, reading, and writing skills within a Brazilian cultural framework. Students who take POR 1410 toward degree requirements must also complete POR 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 1411

**POR 1420. Beginning Portuguese II.**

Continued practice in listening, speaking, reading, and writing skills within a Portuguese cultural framework. Students who take POR 1410 toward degree requirements must also complete POR 1420. (MULT)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 1412

**POR 2310. Intermediate Portuguese I.**

Continued development and review of all language skills within a Portuguese cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 2311

**POR 2320. Intermediate Portuguese II.**

More advanced practice in all language skills with greater emphasis on reading with a Portuguese cultural framework. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** PORT 2312

**POR 3308. Advanced Composition and Conversation through the Brazilian Short Story.**

This course will help students advance their knowledge of the Portuguese language through the reading, discussion, and analysis of modern and contemporary Brazilian short stories. By reading the works of renowned writers students will be able to expand their vocabulary and develop fluent reading and writing skills. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

## Psychology (PSY)

**PSY 1300. Introduction to Psychology.**

A survey of the major principles derived from research on human and animal behavior. Topics studied include learning, thinking, motivation, emotion, personality, the senses, perception, and the form and functions of the nervous system. PSY 1300 is a prerequisite for all other psychology courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2301

**PSY 2100. Professional Seminar.**

This course examines the characteristics of Psychology as a discipline and profession. Coverage includes current trends in Psychology and its subfields, degree options in Psychology and its subfields as they relate to professional and/or career issues, and how to be an intelligent consumer of discipline-specific data and information

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PSY 2101. Introduction to Statistics Laboratory.**

This statistics laboratory course provides an introduction to descriptive and inferential statistics used in psychological research with an emphasis on data analysis techniques through the use of computer applications (ex., SPSS, R, etc.). Students should either be concurrently enrolled in PSY 2301 or have received credit with a "C" or better.

Prerequisite: PSY 1300 with a grade of "C" or better

**1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 2301. Introduction to Statistics.**

(PSYC 2301) The course provides an introduction to statistical methods in behavioral sciences with special emphasis on application to psychological research. The topics covered include descriptive statistics, principles of statistical inference and common hypothesis testing techniques such as z-test, t-tests, analysis of variance, correlation and regression, and selected non-parametric tests. Prerequisites: Grades of "C" or better in PSY 1300 and MATH 1312 or higher (excluding MATH 1316)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2317

**PSY 2311. Psychology of Human Sexuality.**

A psychological and physiological examination of the human sexual experience from conception through old age. Current research findings serve as a basis for study. Major consideration is given to the human sexual system, the sexual act, sexual attitudes and behavior, and sexual complications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** PSYC 2306

**PSY 3300. Lifespan Development.**

Survey of the psychology of human development from the pre-natal period through adulthood. Emphasis placed on cognitive, motivational, and physiological processes of development in childhood and adolescence. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3312. Adolescent Psychology.**

A developmental psychology course designed to examine the complex characteristics of human cognitive and emotional life during the period of adolescence. Emphasis is directed toward the basis of behavior, interpersonal relationships, development, growth, and motivation. Prerequisite: PSY 1300 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3313. Psychology of Adulthood and Aging.**

The development of individuals in the post-adolescent period, particularly after middle age. Topics studied include social, psychological, and physiological changes and problems associated with the aging process. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3314. Psychology of Consciousness.**

This course is an introduction to the study of consciousness from the perspective of psychology, neuroscience, and the natural sciences. Topics reviewed included philosophical foundations, cognitive and neuroscientific approaches, the physical correlates of consciousness, introspection, sleep and dreaming and altered states of consciousness. Prerequisite: PSY 1300.(WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3315. Abnormal Psychology.**

An introduction to the study of abnormality: (1) issues in defining and evaluating it, (2) examples, (3) theories and research attempting to categorize, describe, and explain it, and (4) approaches used to prevent or change it when it is deemed a problem by the individual and/or society. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3316. Personality Psychology.**

A comprehensive introduction to research, theory, and application in the field of personality. Individual differences and situation influences are examined concerning authoritarianism, achievement motivation, anxiety, intelligence, self-concept, interpersonal attraction, aggression, sexuality, and altruism. An integrative model is suggested for describing and predicting human behavior. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3321. Sensation and Perception.**

An introduction to the processes of perception. Topics will include perceptual measurement, the physiological bases of perception, basic visual processes, and basic haptic, olfactory, and gustatory processes. Prerequisite: PSY 3402 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3322. Brain and Behavior.**

This course covers research findings and theoretical concepts concerned with the physiological, anatomical, and pharmacological bases of behavior. Topics include sensory systems, the physiological mechanisms of motivation, and the physiological correlates of associate processes such as learning. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3323. Evolution and Behavior.**

The course provides a contemporary understanding of human behaviors, emotions, and cognitions through an examination of Darwin's theories of natural selection, sexual selection, and mental evolution. Relevant interdisciplinary perspectives from philosophy, history, anthropology, archaeology, biology, ethology, and genetics are incorporated. Prerequisites: PSY 1300, PSY 3300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3325. Psychology of Persuasion.**

This course uses a socio-psychological perspective to understand the dynamics of persuasion and propaganda. It applies selected theories and research on social influence, persuasion and attitude change to such areas as political and educational campaigns, product advertising, mass media and public opinion. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3331. Social Psychology.**

The study of how people influence each other. The course covers such topics as conformity, inter-personal attraction, prejudice, and aggression. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3332. Psychology of Women.**

The special problems and demands made on the woman within modern western culture. Topics studied include status, roles, values, opportunities, expectations, stress, and self-realization of the modern woman. Prerequisite: PSY 1300. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3333. Industrial Psychology.**

The study of applying psychological knowledge and techniques to the modern industrial environment. Topics studied include employee needs, attitudes, selection, testing, boredom, motivation, anxiety, and job satisfaction. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3334. Psychology of Human Diversity.**

Explanations about how the environment, genetics and culture shape human differences, and how these differences are linked to world progress and understanding are addressed. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3335. Forensic Psychology.**

Examines the relationships between psychology and the processes of the American courtroom. Sample issues to be addressed include; (a) What psychological theories are used to explain jury decisionmaking? (b) How accurate is the memory of eyewitnesses? (c) How do characteristics of defendants influence juries? Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3336. Sports Psychology.**

This course examines the relationships, psychological concepts, and individual's thoughts regarding sports, health and exercise. Sample topics include (1) current theoretical perspectives of personality factors at sports and exercise, (2) why people engage in sports, (3) exercise adherence, (4) mental skills, and (5) the psychological effects of sports and exercise. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3337. Psychology of Prejudice, Discrimination, and Hate.**

This course will explore psychological theories and factors that underlie prejudice, discrimination, and hate. Although the course will focus primarily on these issues as they have developed and influence realities in the United States, global issues will also be explored. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3338. Psychology & Law: Protecting the Vulnerable.**

This course examines clinical, legal and psychosocial conditions of adults who, due to mental illness, developmental impairments, brain injuries or aging, are declared "incapacitated" and have court-appointed guardians. Students will serve as the probate court representatives who inspect living conditions and services for individuals under the court-ordered guardianships. Prerequisites: PSY 1300 and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3341. Cognitive Processes.**

This course covers the acquisition and use of knowledge, contemporary research on perception, pattern recognition, memory, thinking, problem solving, and language comprehension. Prerequisite: PSY 3402 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3350. Cognitive Behavioral Therapies.**

The course provides theory, research, and application of psychological principles that affect humans in education, business, and personal life. Emphasis is placed on effective use of reinforcement, classroom management, self-control, relaxation, and assertiveness. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3352. Group Processes.**

A study of how the individual relates to his group membership. Students will analyze the development and functioning of their own groups, with attention to such issues as problems faced by group members in the early phases of a group's existence, leadership roles, group pressure, and trust. Prerequisite: PSY 1300 or consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3353. Computer Applications in the Social and Behavioral Sciences and Education.**

The principles of data analysis and interpretation using SPSS. Topics studied include data entry and management, statistical concepts, hypothesis testing and the proper interpretation of SPSS output. Prerequisite: PSY 3301 and PSY 3302

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 3361. Health Psychology.**

Surveys contemporary theory and research on body/mind interaction in physical and mental health. Emphasis on personality, psychosocial, and stress factors in physical health. Other topics include the effects of physical health on psychological well being, pain management, longevity and aging, and coping with illness and dying. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 3402. Experimental and Research Methods.**

This course introduces students to basic instruction in experimental design, data collection, and technical report writing in Psychology. By examining applications of various methodologies, this course provides information on the steps involved in crafting and executing empirical research projects as well as instruction on procedures and software. Prerequisite: PSY 2301 and PSY 2101 with grades of C or better. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4318. Psychological Tests and Measurements.**

The course provides an introduction to basic principles, research, and theories on testing and measurement of psychological constructs. It includes validity, reliability, item analysis, administration, scoring, and interpretation of existing tests and measures, and construction of new measures including surveys and other psychological instruments. Prerequisites: PSY 2101 and PSY 2301 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 4342. Learning and Memory.**

A study of memory and learning in humans and animals. Attention is given to comparative cognition, cognitive and neuropsychological aspects of memory, and memory deficits. Prerequisite: PSY 3402 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4350. Reality Therapy/Choice Theory.**

This course focuses on Glasser's concepts of Choice Theory and Reality Therapy. This course explores how the "total behaviors" and choices we make impact our lives, the kinds of relationships we want to have with others, health and quality of the life. Prerequisite: PSY 1300. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4352. Introduction to Clinical Psychology.**

Overview of clinical psychology. Emphasis on current theories and methods of individual psychotherapy. Class discussions of readings, films, audiotapes, and live examples illustrating approaches. Experiential learning via class exercises in pairs and small groups and by role-playing both therapist and client in a series of helping sessions. Practical focus on developing relationship skills and job skills. Prerequisite: PSY 3315. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4390B. Emotion and Human Behavior.**

This course will provide an advanced understanding of the multifaceted phenomenon of emotion and its effect on human behavior. Students will be introduced to the philosophical and theoretical underpinnings of emotion, the various individual emotions (e.g. fear, anger, happiness) and will learn how emotion can affect physical and psychological health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390C. Interpersonal Relationships.**

This course will provide students with an overview of theory and research in the area of interpersonal relationships. The goals of relationships as well as the different forms that relationships may take will be discussed. A major emphasis will be placed on applying ideas from class to students' everyday lives. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390M. Psychology and Opera.**

This course will explore the ways in which psychology and opera may, together, enrich our understanding of the human condition and will deal with the scientific attempts to establish causes of human behavior.

This course will show the relationship of the intellectual enterprise-psychology-with a great art form-opera

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390N. Psychopharmacology.**

This course reviews psychopharmacology topics including: neuronal and chemical mechanisms underlying drug action; environmental factors modulating the impact of drugs on emotion, cognition, perception and behavior; the processes underlying drug dependency, tolerance, and withdrawal; and the implications for drug abuse treatment and prevention strategies, especially concerning adolescents. Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390P. Human Factors and Ergonomics.**

This course examines characteristics of people that are applicable to the design of systems and technological devices. This course will illustrate how methods and principles of human factors and ergonomics enhance the usability, safety and performance of human-machine systems.

Prerequisite: PSY 1300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 4390Q. Introduction to Developmental Disabilities.**

This course will provide students with perspectives on the causes, manifestations, and treatment of developmental disabilities throughout the lifespan. Historical views and societal issues will be investigated along with current practices and research. Prerequisites: PSY 1300 and PSY 3315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4390R. Intermediate Statistics.**

This course introduces statistical methods designed for psychological research with multiple independent variables. Topics include factorial analysis of variance and multiple regression. Interpreting interaction effects is a main focus. This is a practice-based course that will cover both the theoretical constructs and also step-by-step computer procedures. Prerequisites: PSY 2301 and PSY 2101 with grades of 'C' or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 4391. History and Theory.**

Study of the evolution of psychology as a science through a systematic review of the principal scientific and philosophic antecedents of modern psychology, and analysis of the status of the major contemporary theoretical schools. Prerequisites: PSY 3302 or PSY 3402 with a grade of "C" or better, and 24 Psychology hours. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**PSY 4393. International Psychology.**

The course focuses on the history, status, and future directions of scientific and professional psychology throughout the world. It requires reading about, discussing, and writing about the relatively new specialty area of international psychology. The objective is to deepen students' knowledge of psychology's relevance to the solution of global problems. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4395. Individual Study.**

Students design and execute original research, or engage in extensive fieldwork, in the field of psychology under the supervision of a faculty member. All students planning to attend Graduate School are advised to enroll in the course. May be repeated once for additional credit.

Prerequisite: PSY 3402 with a grade of "C" or better and consent of instructor. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**PSY 4396. Internship in Psychology.**

Extensive field work in a professional setting related to psychology. May be repeated once for additional credit. Prerequisites: 12 hours of PSY and consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**PSY 5105. Practicum in Teaching Psychology.**

This course will examine processes and strategies designed to improve the teaching and learning process. Students will be introduced to learning and instructional theory and selected concepts, issues, and strategies of instructional planning, delivery, management, and evaluation. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis. Prerequisite: Approval of Graduate Advisor

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**PSY 5198. Research Seminar.**

Taken in two consecutive semesters, this seminar provides an orientation to the graduate program and the steps required for thesis completion. Topics include the discussion of research interests, critiquing literature, and topic selection; developing and submitting a research proposal; selecting a thesis committee; and thesis completion and submission. Restricted to M.A. students in Psychological Research

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5199B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5299B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis.

Prerequisite: PSY 5399A and Instructor Approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5306. Psychological Development: Theories & Research.**

This course is an advanced coverage of biological, social, and cognitive development throughout the lifespan. Topics include cognitive developmental theory, sensory/perceptual development, language development, infant attachment, the development of gender roles, moral development, and issues related to aging. Prerequisite: PSY 3300 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5310. Advanced Abnormal Psychology.**

Critical analysis of the definition and classification of abnormal behavior and experiences and an in-depth study of theories and research on causes, remediation, and prevention. Prerequisite: PSY 3315 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5311. Univariate and Bivariate Statistics.**

This course introduces students to univariate and bivariate statistical concepts and techniques used in psychology research (e.g., probability, sampling distributions, t-tests, and analysis of variance, correlation).

Emphasis is placed on developing skills in data analysis including the selection of appropriate techniques, using data analysis software, and interpretation of statistical results. Prerequisite: PSY 2301 with a grade of "C" or better

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**PSY 5314. Attitudes: Assessment and Change.**

This course reviews social cognitive theories and research on attitudes and behavior change, and examines the principles of persuasive communication. Topics covered include individual differences in information processing, risk assessment, decision making and factors moderating attitude-behavior consistency

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5317. Group Processes and Interpersonal Dynamics.**

Designed to train future professionals in both the cognitive and personal issues related to group behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5318. Assessment in Psychology.**

The course will provide an overview of assessment instruments commonly used by psychologists and neuropsychologists in research and practice. Basic psychometrics such as validity and reliability also will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**PSY 5320. Principles of Measurement and Statistics.**

The course emphasizes classical measurement theory, including reliability and validity of measurement instruments commonly used in psychology, and reviews descriptive statistics with a focus on correlation and regression. Prerequisite: Course in undergraduate statistics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5321. Multivariate Statistics.**

This course introduces students to multivariate statistical techniques commonly used in psychological research such as analysis of variance and covariance, multiple regression, and factor analysis. Emphasis is placed on developing applied skills in data analysis: selection of appropriate statistical techniques, using data analysis software, and interpretation of statistical results. Prerequisite: PSY 5311 with a grade of "C" or better

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**PSY 5324. Biological Bases of Behavior.**

This course provides an overview of the nervous system structure and function appropriate to the overall field of Psychology in order to foster an appreciation of the biological determinants of behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5326. Neuropsychological Assessment.**

This course will introduce principles of neuropsychological assessment including assessment procedures, interpretation of results, neuropathology, and the range of neuropsychological functions to be assessed. This course will also cover the characteristics and administration of several neuropsychological assessment instruments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5334. Health Issues in Diverse Population.**

This course examines the influence of socio-cultural beliefs and perceptions on health behaviors and the use of health services. The various ways in which race, ethnicity, gender and social class are related to the delivery of health care and opportunities to facilitate health care to the most vulnerable are explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5335. Foundations of Health Psychology.**

This course will utilize a biopsychosocial approach to understand the psychology of wellness and disease. Topics include stress, coping, pain, social support, and chronic illness. Special emphasis will focus on physiological responses, psychoneuroimmunology, and somatization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5342. Professional Ethics and Standards of Practice.**

This course will focus on the study of APA ethical principles and standards of practice with emphasis on their applicability to research. Ethical decision-making and research, landmark studies, legal cases, and controversies in the field will be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5343. Occupational Health.**

This course focuses on promoting and maintaining the physical, mental, and social well-being of workers by promoting positive health behaviors, controlling risk factors, and facilitating the adaptation of work to people and people to their jobs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5345. Psychopharmacology.**

This course explores: (1) the reasons that humans and animals consume mind altering substances called psychoactive drugs, (2) the neuronal, chemical, and hormonal mechanisms underlying drug action, and (3) the environmental factors that modulate the impact of psychoactive drugs on emotional, cognitive, perceptual and behavioral expression in humans and animals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5348. Health Psychology: Prevention and Intervention.**

This course will focus on primary, secondary and tertiary prevention and intervention strategies to enhance health and wellness. Topics will include health-promoting behaviors, risky health behaviors, theories of health behavior change, the process of medical care, and treatment adherence. Special emphasis will be on planning, implementation, and assessment of interventions. Prerequisites: PSY 5335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5352. Psychological Therapies.**

This survey course on evidence-based psychological interventions focuses on the active mechanisms by which therapies work and their application to specific diagnostic categories and conditions. Interpersonal, behavioral, cognitive-behavioral, and dialectical behavior therapies will be highlighted along with newer empirically-based therapies such as Acceptance and Commitment Therapy and mindfulness approaches

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5360G. Forensic Psychology.**

Examination of the relationships between psychology and the Criminal Justice system. Emphasis is placed on how psychology variables influence how individuals carry out their duties within the system. Sample topics include: (a) psychology and jury decision-making, (b) accuracy/impact of eyewitnesses testimony, and (c) how characteristics of defendants influence juries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 5360H. Psychology of Women.**

The course includes an in-depth examination of the development of women's roles and gender differences as well as a consideration of women's relationships, sexuality, employment, and diversity. Special topics such as women and violence will also be covered

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**PSY 5360I. Cognitive Neuroscience.**

This course provides a comprehensive introduction to cognitive neuroscience: the study of the biological basis of cognitive processes such as perception, attention, memory, language, and decision-making. This is a seminar course that will cover both the theoretical constructs and also recent research that pertain to each topic. Prerequisite: PSY 3322 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360J. Research Seminar in Social Psychology.**

This seminar course provides an introduction to selected topics in social psychology. It covers the process of research planning: finding a topic, reviewing literature, designing a study, selecting measures, considering ethical issues, obtaining IRB approval, data collection, data analysis, manuscript preparation. It culminates with each student producing a research proposal. Graduate Standing in Psychology required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360K. Human Memory and Memory Disorders.**

This course provides a comprehensive overview of topics in human memory including different types of memory and brain structures involved. Special emphasis will be given to problems with memory including forgetting, aging memory, amnesia, and Alzheimer's disease. This course will cover both current theories and cutting-edge research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360L. The Psychology of Language.**

This course provides a grounding in the cognitive theories/models of the major areas of language research: acquisition, comprehension, and production. It also provides an overview of the cognitive processes involved in several specific topic areas in language, such as syntax, semantics, discourse, prosody, bilingualism, neuro-linguistics, sign language, and reading

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5360M. Introduction to Psychophysiology.**

This course will provide an overview of the principles, theory, and applications of using physiological measures to study mental processes. This course will illustrate how the use of psychophysiological measurements can enhance our understanding of brain/mind/behavior relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**PSY 5366. Individual Study.**

Students design and execute original research or engage in extensive fieldwork in the field of psychology under the supervision of a faculty member. May be repeated once for credit. Prerequisite: PSY 5391 and permission of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5370. Learning, Cognition, and Motivation.**

Basic problems in the acquisition of responses, treating with such constructs as reinforcement, extinction, retention, forgetting, problem solving, motivation, and punishment. Major theories are treated through attention to classical experiments, but greatest emphasis is given to contemporary research. See Educational Psychology 5370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5385. Industrial Social Psychology.**

Research findings and theoretical concepts concerned with social-structured problems in organizations. Topics covered include: the system concept, characteristics of social organization, organizational effectiveness, leadership communications, and decision-making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5391. Research Methods & Experimental Design.**

Problems in psychology, emphasis on research procedures. A research project is required of each student. Restricted to M.A. students in Psychological Research

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5392. Program Evaluation.**

Introduces the theory and techniques of program evaluation. Addresses all phases of program evaluations, including: conceptualization, planning, implementation, methodological and ethical issues, and analyzing and reporting results. Emphasis is placed on experimental and quasi-experimental methods commonly used in the evaluation of health programs. Prerequisite: PSY 5320 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5395. Practicum I.**

Structured practical experience in health psychology at private or public setting. Supervision will be provided by a member of the graduate faculty and by a key individual at the site. Graded on a credit (CR), no-credit (F) basis. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5396. Practicum II.**

Structured practical experience in health psychology at private or public setting. Supervision will be provided both by a member of the graduate faculty and by a key individual at the site. Graded on a credit (CR), no-credit (F) basis. Prerequisite: PSY 5395

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5398. Internship in Psychology.**

Students engage in extensive field work in a professional setting related to psychology. Prerequisites: PSY 5311, PSY 5321 & PSY 5391 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**PSY 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in PSY 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5321 and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5399B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5599B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**PSY 5999B. Thesis.**

This course represents a student's continuous thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis. Prerequisite: PSY 5399A and Instructor Approval

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Quantitative Methods and Statistics (QMST)

**QMST 2333. Business Statistics.**

This introductory course covers descriptive and inferential statistical techniques for business and economic decision making. Topics include measures of central tendency and dispersion, probability distributions, sampling distributions, confidence intervals, hypothesis testing, simple linear regression, and correlation analysis. Prerequisites: CIS 1323; MATH 1329 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 3334. Statistical Modeling.**

Students will learn to apply a broad range of statistical analysis techniques using statistical software in business decision-making. Topics include applied modeling techniques, such as regression modeling, time-series modeling and analysis of variance; non-parametric methods; quality control; and simulation. Prerequisite: QMST 2333

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 3339. Data Mining and Visualization.**

This course introduces data mining concepts and practical skills for applying data mining techniques to solve business problems. It emphasizes data visualization and data analysis algorithms (e.g., prediction, classification, clustering), systematic evaluation and model assessment for big data sets. Prerequisites: QMST 2333 or equivalent; Overall GPA of 2.0 required

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 4373A. Applied Time Series.**

This course will teach the fundamentals of time series methods to be applied on real-life data. The course focuses on application, however the methodology behind the models will also be discussed. Students will learn how to pick the appropriate method for the time series of interest.

Prerequisites: Consent of instructor and department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**QMST 4373C. Topics in Data Analytics.**

This course covers the process of transforming big data into information for making decisions. The topics include introduction to data science, analytics and advanced data mining algorithms, and challenges related to analyzing business data. Students will learn how to use software and conduct data analysis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**QMST 5309. Statistical Methods for Business Analysis.**

A study of probability, statistical reference, and regression analysis, and the use of these tools for the purpose of decision making in business and economics. This course does not earn graduate degree credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**QMST 5332. Quantitative Methods.**

A study of management science/operations research emphasizing theory and applications of evaluative, predictive, and optimizing models as applied to the management of product and service-oriented operations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 5334. Advanced Statistical Methods for Business.**

The course provides the quantitative foundation for business analysis and decision making. Topics include: regression analysis, mathematical programming, simulation and other analytical/modeling techniques with wide applicability in decision-making and problem solving in all functional areas of business. Prerequisite: B A 5353

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**QMST 5335. Introduction to Forecasting and Simulation.**

Introduction to the concepts and principles of forecasting and simulation techniques as applies to planning and decision making in organizations.

Topical coverage includes time series forecasting, casual forecasting, discrete event simulation, and continues-event simulation techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

# Radiation Therapy (RTT)

## RTT 3120. Clinical Simulation Lab I.

Students are provided instruction and simulated practice in a controlled laboratory setting. This course provides first-year students foundational clinical set-up skills from which to build on during the clinical learning practicum course

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3121. Clinical Simulation Lab II.

Students are provided instruction and simulated practice in a controlled laboratory setting. This course provides instruction, demonstration and participation in immobilization, positioning and simulation with the aid of an anthropomorphic phantom. Students will learn aspects of simulation for basic treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3220. Directed Clinical Learning I.

Students will observe the basic operations of the radiation oncology clinic while interacting with the multidisciplinary team involved in providing treatment and care. The student will be introduced to oncology terminology, equipment, and techniques used for treatment. Learning is achieved through direct patient care, with instruction, demonstration and direct supervision. Prerequisite: Acceptance into the major

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3221. Directed Clinical Learning II.

Students will gain additional skills in clinical procedures, interaction with patients and professional personnel. Students apply knowledge from previous clinical learning experience under the supervision of a registered radiation therapist. Students are tested on intermediate clinical radiation therapy skills

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3300. Patient Care in Radiation Oncology.

This course will focus on basic nursing concepts involved in providing care for the cancer patient. Topics to be included in the class will be cancer as a chronic health problem, social roles and cancer, multidisciplinary approach to patient care, psychosocial dimension of cancer, in-treatment examinations, follow-up examinations, emergency management, chemotherapy and nutritional aspects of treating patients with cancer

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3301. Introduction to Radiation Oncology.

An overview of radiation oncology and the role of the radiation therapist. Presentations will orient the student to the physical and biological basis of radiation equipment, procedures, tumor pathology, and patient interaction. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

## RTT 3302. Radiologic Science and Medical Imaging.

This course will cover the principles governing production of radiation, interaction of radiation with matter, and protection of the radiation worker and patient from exposure. Basic principles of x-ray equipment, exposure factors, latent image formation, and processing of radiographs are presented. Prerequisite: Program Director's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3310. Physics of Radiation Therapy I.

Students will learn the principles of radiation physics as they apply to the treatment and care of the cancer patient. Course will include a thorough review of x-ray production, fundamental principles, concepts and terminology. Topics studied include measurements, general principles, structure of the atom, structure of the matter, electrostatics, magnetism, electrodynamics, electromagnetism, rectification and production and properties of radiation and radiographic techniques

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3314. Radiation Therapy Sectional Anatomy.

The course provides instruction in identifying cross-sectional anatomy to develop the ability to make anatomic correlations between multiple planes of view. Major organs, lymphatics, vessels are emphasized as related to the clinical significance in the field of radiation therapy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 3350. Radiobiology.

This course will cover the principles of cell response to radiation, including tissue sensitivity, survival, repair and the latent effects of irradiated tissue. Topics to be covered include the development of radiation science, cellular targets for radiation action, target theory, physical/ chemical factors affecting radiation response, biological factors, repair and recovery, fractionated doses and dose rate, early/ acute effects of whole body exposure, late/chronic effects of whole body exposure, and radiation protection dose guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 4120. Clinical Simulation Lab III.

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 3121. This course provides instruction, demonstration, and participation in immobilization, positioning and simulation with the aid of an anthropomorphic phantom. Students will learn aspects of simulation for basic intermediate treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## RTT 4121. Clinical Simulation Lab IV.

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 4120. This course provides instruction, demonstration and participation in immobilization, positioning and treatment simulation. Students will learn aspects of simulation for basic, intermediate, and some advanced treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**RTT 4122. Clinical Simulation Lab V.**

Students are provided instruction and simulated practice in a controlled laboratory setting. A continuation of RTT 4121. This course provides instruction, demonstration and participation in immobilization, positioning and treatment simulation. Students will learn aspects of simulation for basic, intermediate, and some advanced treatment delivery applications

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4189. Radiation Therapy Literary Scholarship and Manuscript Writing.**

This intensive writing course provides instructions in research strategies, critical review and analysis of peer reviewed publications. An introduction to scholarly resources and professional manuscript development using peer reviewed journal guidelines for the profession of radiation therapy. This course prepares students for RTT 4191 Radiation Therapy Seminar. (WI)

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RTT 4190. Professional Issues in Radiation Therapy.**

This capstone course provides a comprehensive review of the program curriculum and clinical practice in the field. Current radiation therapy treatment management techniques and issues are presented for analysis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RTT 4191. Radiation Therapy Seminar.**

This course is a continuation of RTT 4189. The course provides instruction in the completion of a final draft for the student's technical manuscript. The course work builds from the completed manuscript and draws from the material and knowledge gained in RTT 4189 to develop a formal presentation

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4220. Directed Clinical Learning III.**

Students will continue to develop skills during this clinical course. Progressive interaction with patients and professional personnel are monitored as students practice radiation therapy in a supervised setting. Additional areas include problem solving, identifying machine components and basic side effect management. Students will demonstrate competence in beginning, and intermediate procedures

**2 Credit Hours. 1 Lecture Contact Hour. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4221. Directed Clinical Learning IV.**

The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and some advanced procedures through supervised clinical instruction, progressing through a competency-based educational sequence

**2 Credit Hours. 1 Lecture Contact Hour. 24 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4222. Directed Clinical Learning V.**

The students will complete their clinical training by practicing all the skills they have learned in the classroom, lab, and clinical practicum. The students will continue demonstrating proficiency while completing the Skills Competency Checklist

**2 Credit Hours. 1 Lecture Contact Hour. 24 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4291. Professional Issues in Radiation Therapy.**

This capstone course provides a comprehensive review of the program curriculum and clinical practice in the field. Current radiation therapy treatment management techniques and issues are presented for analysis

**2 Credit Hours. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4310. Physics of Radiation Therapy II.**

Students will continue to learn the principles of cell response to radiation. Topics covered will include properties of x-ray and gamma radiation, radiation units, x-ray production, photon interactions, beam characteristics, radioactivity, treatment units, and particle irradiation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4330. Quality Assurance.**

Students will study quality assurance tests related to patient charts, treatment accessories, patient communication devices, machine reading and safety devices. Emphasis on quality control procedures to include Continuous Quality Improvement (CQI), Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and responsibilities of each team member in relation to quality assurance duties

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4331. Operational Issues in Radiation Therapy.**

Course content is designed to focus on various radiation therapy operational issues. Accreditation, CQI development and assessment techniques will be presented. Human resource issues and regulations impacting the radiation therapist will be examined. Topics include the role of network information systems within the radiation oncology department. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RTT 4360. Dosimetry I.**

This course will cover the basic concepts in treatment planning and clinical dosimetry. Students will learn to identify treatment preparation processes and needs for beam modifying devices. Students will also be taught isodose charts for several treatment arrangements and be able to calculate a variety of external beam treatment formulas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4361. Dosimetry II.**

Students will learn additional concepts in treatment planning and clinical dosimetry addressed in Dosimetry I. Computerized treatment planning applications will enhance the understanding of medical dosimetry

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**RTT 4370. Clinical Radiation Oncology I.**

The first of a two-part course, this course advances the student's knowledge of neoplastic disease management. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread principles of treatment, staging, and prognosis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RTT 4371. Clinical Radiation Oncology II.**

The second of a twopart course, this course is a continuation of disease specific instruction. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread, principles of treatment, staging, and prognosis. Prerequisite: RTT 4370

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Reading (RDG)

**RDG 1300. Reading Improvement.**

A content-based learning strategies course for students who require compensatory instruction in vocabulary, reading comprehension, critical reading, study skills, and test-taking skills. Required for students who fail to make passing scores on the TASP reading subtest. Concurrent enrollment in specific sections of appropriate general education courses is required. Credit earned for this course does not count toward any degree offered by the university

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Developmental/ Remedial|Lab Required

**Grade Mode:** Developmental

**RDG 3312. Reading and Writing Instruction for Children with Special Needs.**

Course focuses on classroom reading instruction for children not making average progress in literacy. Course topics: nature and identification of literacy difficulties, including dyslexia; modification of instruction for children with special needs; diagnostic teaching, teacher/program effectiveness and legal requirements of special populations. Prerequisites: Admission to the Teacher Preparation Program; RDG 3315, RDG 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 3315. Assessing Literacy: Early Childhood Through Grade Six.**

Students will understand principles of literacy assessment to guide literacy instruction for all children, including culturally and linguistically diverse students, and plan appropriate instruction in a field-based setting. Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, CI 3332, CI 4360, ECE 4300, ECE 4310, ECE 4352; Co-requisites for EC-6: RDG 3321, RDG 3320; Co-requisite for 4-8: RDG 4310; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 3320. Integrating Reading and Writing.**

Course focuses on the integration of reading and writing with other subject areas, especially social studies, with special attention given to ESL methodologies for language arts instruction. The workshop approach for reading and writing is emphasized. Prerequisites: Admission to the Teacher Preparation Program; Co-requisites: RDG 3315, RDG 3321; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RDG 3321. Literacy Instruction for Early Childhood Through Grade Six.**

Course provides for the understanding, critical analysis, and application of current literacy methods and materials, with a focus on ESL theories and methodologies. Course is taught in a field-based setting. Prerequisites: Admission to the Teacher Preparation Program; CI 3315, CI 3310, CI 3332, CI 4360, ECE 4300, ECE 4310, CI 4352; Co-requisites: RDG 3315, RDG 3320; 2.75 Overall GPA. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RDG 3323. Teaching Reading in the Content Areas.**

Provides information about reading in secondary content areas emphasizing selection and use of materials, including textbooks in print and electronic formats. Topics include instructional strategies, assessment of comprehension, and adapting instruction to meet student needs. Prerequisites: Admission to the Teacher Preparation Program; CI 3325, CI 4332; Co-requisites: CI 4343, CI 4370; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 4310. Content Reading.**

Course provides information about instruction in the elementary content areas with emphasis on the effective use of textbooks and tradebooks. Course topics include: nature and purpose of content instruction and reading, text selection, use of tradebooks, comprehension, inquiry learning and problem solving, and assessment and meeting individual needs in content reading. Prerequisites: Admission to the Teacher Preparation Program; CI 3310, CI 3325; Co-requisite: RDG 3315; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 4320. Language and Literacy in Diverse Communities.**

Course includes the examination of sociolinguistic theories and an introduction to culturally responsive teaching of literacy. Topics address social identity factors, ethnicity, language variation, bilingualism, and the acquisition of Standard American English with implications for effective literacy instruction. Prerequisite: 2.75 overall GPA. Junior classification required. Must be declared in a degree program that leads to teacher certification. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 4380. Independent Study in Reading Instruction.**

Analysis and interpretation of selected topics of special interest in reading and language arts instruction. Topics and instructors will vary from semester to semester. Repeatable for credit with different emphasis. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RDG 5310. Teaching Literacy with Children's and Young Adult Literature.**

Course focuses on current research and methods for using children's and young adult literature, including multicultural literature for literacy instruction in grades EC-12. Students will explore different genres and evaluate and select literature for instruction across the curriculum

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5320. Foundations of Literacy Instruction.**

Course surveys reading and writing theories, processes, and models; theoretical bases of literacy instruction, stages of literacy development; the relationship between oral language and literacy; and classic and current quantitative and qualitative literacy research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5322. Teaching Reading in the Elementary and Middle Schools.**

Course focuses on effective literacy instruction in elementary and middle schools, including the following areas: word identification, spelling, word study, vocabulary instruction, comprehension strategy instruction, fluency, critical literacy, and engagement. The course examines reading curricula, instructional assessment, and selection of material

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5324. Developing Content Area Literacy in Middle and Secondary Schools.**

Course examines literacy development in middle and secondary school content areas. Topics include classroom assessment, development of strategic literacy, fluency, critical thinking, lifelong attitudes, interests, study strategies, and literacy in multiple sources of narrative and information text ranging from textbooks to electronic texts. Prerequisite or corequisite: CI 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5326. Developmental Literacy in the Middle and Secondary Schools.**

Course focuses on effective literacy instruction for middle- and secondary-school students who struggle with literacy. The course also addresses reading curricula and instruction, assessment, and materials selection. RDG Majors, Minors, and MRT candidates only, or with permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5331. Literacy Methods for Linguistically and Culturally Diverse Students.**

Course topics include linguistic and literacy challenges unique to students whose native language or dialect is not standard English, and innovative methods for teaching literacy to linguistically and culturally diverse students. Prerequisite: Reading Majors - RDG 5322, RDG 5324, or RDG 5326. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**RDG 5334. Family Literacy.**

Family literacy is an intergenerational program that integrates adult literacy and emergent literacy education. This course will provide students with the knowledge and abilities to manage a family literacy program. Students will analyze related learning theories, population needs, program structures, and policy issues, including diversity and accountability

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5335. Basic Academic Literacy.**

This course examines basic literacy needs and appropriate instructional strategies for traditional and non-traditional students entering college. Content covers basic to academic literacy, analysis of instructional strategies, comprehension, fluency, vocabulary, decoding, and phonemic awareness

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5340. Connecting Reading and Writing in the Classroom.**

Course focuses on the relationships between reading and writing; the connections among written language, oral language, and thinking; and the organization of integrated reading and writing instruction in grades EC-12, including "workshop" techniques and thematic teaching. Prerequisite: RDG 5322 or RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5345. Assessment-Driven Literacy Instruction.**

Course focuses on classroom literacy assessment, interpretation of assessment results, and designing and implementing effective literacy instruction based on assessment results. Course concentrates on the special needs of individual readers within the classroom setting and includes interpretation of formal assessments. Prerequisite: RDG 5322

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5350. Literacy as Sociocultural Practice.**

Using a social constructivist lens, this course examines broadening conceptions of literacy and what it means to be literate in the 21st century. Students learn about current research, theory and practice pertaining to sociocultural models of literacy and literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5370A. New Literacies.**

Course is an in-depth study of research and theory pertaining to the New Literacy Studies (NLS). Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370B. Social, Cultural, and Political Contexts of Literacy Instruction.**

This course explores implications of social, cultural, and political contexts for literacy instruction/policy. Students examine how literacy policies are created, shaped, and implemented and the impact of policies on how literacy is defined. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**RDG 5370C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to develop, explore and reflect on literacy as social practices within a community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370D. Community Literacy.**

The purpose of this course is to explore and reflect on literacy as social practices within a community, informing effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5370E. Writing Pedagogy in the P-12 Classroom.**

In this course students will examine theories, research, and practice in writing instruction in P-12 classrooms. Students will write and reflect on their writing process; use this information to contribute to their students' growth as writers; develop standards and curricula; and critically examine district, state and national policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**RDG 5380. Independent Study in Reading Research.**

In-depth analysis and interpretation of selected research topics of great current interest in reading and language arts. Topics and instructors will vary from semester to semester. May be repeated with different topics for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 5395. Teaching Academic Literacy to Adults.**

Course focuses on teaching academic literacy to older students and adults in post-secondary settings. Topics include: the literacy needs of adult learners in formal schooling; appropriate assessment strategies; instructional methodologies, materials, and resources; and the school-based groups, schools, and agencies that serve these students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6330. Language Acquisition and Development for Literacy Instruction.**

Course topics include first and second language learning; dialect acquisition and development; theories and stages of language development; language diversity; and language disorders. Students read and interpret research and study language development of EC-12 children from varying linguistic backgrounds. Prerequisites: RDG 5322, RDG 5320, and RDG 5324 or RDG 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 6333. Reading Specialist Internship II: Designing and Evaluating Literacy Professional Development.**

Course will focus on using interpretations of assessment data, literacy research, and state/national assessment requirements to demonstrate leadership and design professional development for literacy assessment and instruction. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6336

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 6336. 6336 Reading Specialist Internship I: Designing and Evaluating Literacy Research in Schools.**

This course focuses on designing, conducting, and interpreting quality, school-based research to guide literacy instructional decision-making. Internship students will work in approved educational settings to demonstrate the roles of the Reading Specialist including literacy teacher, leader, coach, and researcher. Prerequisites/co-requisites: RDG 5310, RDG 5320, RDG 5322, RDG 5326, RDG 5331, RDG 5340, RDG 5345, RDG 6330, and RDG 6331

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**RDG 7301. Theory and Research of Literacy.**

This course examines the current theories and basic research of literacy development from psychological, cultural, linguistic, educational, and epistemological frameworks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7302. Theory and Research of College Basic Literacy.**

This course examines basic literacy needs and instructional strategies for students within post-secondary institutions. Explored are etiologies; comparison of basic to academic literacy; analysis of instructional strategies and materials for developing phonemic awareness, decoding, vocabulary, fluency, and comprehending in single sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7303. Theory and Research of College Academic Literacy.**

This course examines basic literacy needs and instructional strategies for students in college. Explored are etiologies; comparison of academic workplace, and new literacies; instructional strategies and materials for developing vocabulary, comprehending, and critical and strategic reading in multiple sources of information. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RDG 7304. Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers.**

This course examines the historical and contemporary understandings of language acquisition and instruction; foundational knowledge of literacy research and cultural and linguistic difference; instructional practices and materials including culturally responsive instruction understanding linguistic differences, creating supportive literate environment,, assessment, diagnosis, evaluation; and critical literacy. Prerequisites: RDG 7301, RDG 7302, RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7305. Theory and Research of College Literacy Assessment.**

This course reviews literacy assessment theory, research, policy, and practice in pre-school through grade 20 including accountability, standard-based curriculum, cultural and linguistic effects, assessment driven instruction, reliability and validity, interpretation, and types of instruments: high-staked, placement, diagnostic, classroom tests, and qualitative instruments. Prerequisites: RDG 7301, RDG 7302, RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7306. Literacy Research Seminar.**

Doctoral students participate in weekly research seminar that explore research and policy papers in literacy and literacy education, examine their methodology and conclusions, and consider additional research questions. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**RDG 7307A. New Literacy Studies.**

This course focuses on the field of New Literacy Studies (NLS). This course will include an examination of diverse ways in which new technologies broaden and change the demands on what it means to be a literate citizen of the 21st century. Prerequisite: RDG 7301

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307B. Community Literacy.**

Purpose is to explore, understand, refine, and reflect on literacy as social practices within a community which informs effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project. Prerequisite: RDG 7301, RDG 7302 or RDG 7303

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307C. Foundations of Integrated Reading & Writing Pedagogy.**

The purpose of this course is to examine theory, research, and practice of an integrated reading and writing approach to postsecondary literacy instruction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**RDG 7307E. Theory, Research and Practice of Disciplinary Literature.**

This course examines core principles of disciplinary literacy. Students will examine the theory, research and pedagogical practices of literacy across the disciplines with an emphasis on understanding the potential for post-secondary learners and developmental education practices

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

## Recreation (REC)

**REC 1310. Introduction to Recreation and Leisure Services.**

Introduction to recreation, includes brief historical backgrounds, professional opportunities, present status, past and present leaders. Role of leisure time in our social structure, professional responsibility, familiarization with current issues and trends, and professional literature. Lecture and field trips. A grade of "C" or higher in this course is required to enroll in any upper division Recreational Administration courses

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 1330. Leisure and Outdoor Recreation.**

This course provides students with an overview of the role the natural world plays in recreation and leisure services. The course will focus on values of outdoor recreation, adventure recreation, environmental impact, and the role of government in the provision and protection of outdoor recreation programs and resources

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 1370. Introduction to Therapeutic Recreation.**

This course surveys history, philosophy, terminology and professional opportunities in therapeutic recreation. The role of leisure and therapeutic recreation in enhancing quality of life is explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 2330. Leadership in Recreation and Leisure Services.**

Discussion of leadership theories and skill development for indoor-outdoor games and sports. Teaching activities to develop skill in programming various indoor/outdoor recreational settings

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**REC 2335. Recreation Program Development.**

This course introduces students to basic principles and procedures for developing recreation programs that respond to human needs.

This course provides students with opportunities to acquire and utilize recreation programming skills through practical application. Prerequisites: REC 1310 with a grade of "C" or better, and REC 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**TCCN:** PHED 1336

**REC 2336. Directed Field Experience in Programming Recreation.**

Students participate in programming and leadership with a selected recreation agency. Online learning modules and communications guide the work and professional reflections. Prerequisite: REC 2335 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter



**REC 2370. Practices and Interventions in Therapeutic Recreation.**

Students engage in classroom content and service learning to develop knowledge and skills in facilitation techniques used in a variety of therapeutic recreation settings. Prerequisites: REC 1310 and REC 1370 with grades of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**REC 3325. Recreation Administration.**

This course covers administrative practices relevant to entry-level professionals in the recreation industry. Topics include foundations of management, decision-making, planning, coordination of resources, and ethics in the public recreation sector. Prerequisite: REC 2335 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 3335. Advanced Recreation Program Development.**

Students will develop advanced program planning skills through the integration of theories and models of program development, consideration of diverse target markets, performing needs assessments, and planning for risk management issues. Students will apply these planning skills through an applied project. Prerequisite: REC 2335 with a grade of "C" or better. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REC 3340. Design and Maintenance of Recreational Facilities.**

Introduce theories and provide practical experience in the design, development, operation, maintenance, administration of various recreational facilities. Prerequisite: REC 2335

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 3351. Evaluation of Leisure Service Programming.**

Methods, techniques and application of the evaluation process related to a wide variety of leisure service functions: clientele and prospective participants, programs, personnel, facilities, organizations and literature. Prerequisite: REC 2335. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REC 3360. Field Work in Recreation Leadership.**

The student participates at the leadership level in the ongoing work of a selected recreation agency. The work is supervised by an agency representative and a faculty member trained in the recreation field.

Prerequisites: REC 1330, REC 2330, and Departmental Approval

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REC 3370. Assessment and Documentation in Therapeutic Recreation.**

This course introduces students to selecting, utilizing, and interpreting assessment instruments, and to the processes used to document assessment results and client progress used in therapeutic recreation practice. Prerequisites: REC 1370 with a grade of "C" or better, and HIM 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4320. Therapeutic Recreation and People with Psychiatric Conditions.**

Students will gain a theoretical and practical foundation for applying the therapeutic recreation process with persons with psychiatric conditions. Focus will be on the development of skills necessary to implement evidence-based interventions aimed at behavior change. A grade of "C" or higher in this course is required for enrollment into REC 4680.

Prerequisites: REC 1370, REC 2370, REC 3370, PSY 3300 and PSY 3315, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4330. Entrepreneurial Recreation Management.**

This course provides a study of the scope and the entrepreneurial management of leisure services. The focus will be on financial management related to profit centers including planning, legal liability, record keeping, and revenue management. Prerequisite: REC 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4335. Outdoor Recreation Programming.**

Students apply principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments. Students will demonstrate competencies for Leave No Trace certification. Course is taught in cooperation with the Texas State University–Outdoor Center. Prerequisites: REC 1330 and REC 2335; or Consent of Instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REC 4350. Theories and Methods of Supervision in Recreation and Leisure Services.**

This course presents theories and methods relating to recruitment, selecting, hiring, training, disciplining, and discharging employees. This course also addresses legal issues related to personnel supervision.

Prerequisite: REC 2335

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4370. Principles of Therapeutic Recreation.**

This course will cover the principles of therapeutic recreation services including comprehensive program planning, administrative processes, and issues related to professionalism. Prerequisites: REC 1370, REC 2370, and REC 3370, all with grades of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 4380. Seminar in Recreation.**

This capstone seminar addresses trends in leisure services. Emphasis is on the interactional effects of diverse services, consumers, and environments. Taken in the fall or spring semester immediately preceding enrollment in REC 4680. Departmental approval required. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter



**REC 4680. Internship in Recreation.**

The student participates at the administrative level in the ongoing work of a selected parks and recreation agency. The work is co-supervised by an agency representative trained in the recreation field. Prerequisites: In addition to completion of all REC classes on degree plan and Departmental Approval, completion with a 'C' or better in REC 1370, REC 2370, REC 3370, REC 4320 and REC 4370 for Therapeutic Recreation majors or in REC 2335, REC 2336, REC 3325 and REC 4380 for Recreational Administration majors

**6 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REC 5101. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in Health and Human Performance. It provides regular in-service and planned evaluations of instructional responsibilities. Registration is required of Graduate Teaching Assistants in the spring semester of employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**REC 5199B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5201. Graduate Assistant Development.**

This course is required of all graduate teaching and instructional assistants in HPER. This course provides regular in-service and planned periodic evaluations of instructional responsibilities. Graduate assistants will be required to register for this course in the fall semester of their employment. This course does not earn graduate credit. Graded on credit (CR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**REC 5299B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5310. Philosophical Foundations of Recreation & Leisure Services.**

To introduce and explore the meanings of leisure, leisure behavior, and leisure services from historical, philosophical, sociological, and political perspectives. Students will develop a philosophical view of leisure based on exploration of the history of leisure and the leisure profession as well as consideration of the nature of the individual and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5318D. Technology, Leisure & Recreation: A critical survey.**

Modern society has increasingly been redefined by practices contextualized by leisure/recreation and embedded in the essence of leisure. Another definer of modern life is technology. This course is a critical survey of the confluence of these two domains, with new meanings made evident. Technology topics may vary. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318E. Physical environment, life and leisure I: Built public spaces and the leisure experience.**

The physical environment is not only a container of human action, it is also itself experienced by people. This course will examine how the human-made environment is a source of meaning and experience and suggest, consequently, how it can be modeled to facilitate preferences by users. Open to non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 5318L. Outdoor Recreation Leadership and Administration.**

Students will become knowledgeable of the theoretical foundations of outdoor and adventure recreation programming and sustainable ecotourism. Principles and procedures for developing and leading recreation programs in a variety of specialized, outdoor environments will be studied. Leave No Trace competency and outdoor skills will be analyzed and demonstrated in outdoor settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5318M. Programming for Active Older Adults.**

Individuals who work in leisure and aging focus on enhancing the quality of life for individuals aged 55 and over. The population of persons over the age of 65 is growing rapidly and in the US the 'older adult' population now includes members from three distinct age cohort group

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5320A. Leisure Enhancement in Later Life Dementia Studies in the United Kingdom - Study Abroad.**

This study abroad course focuses on selected topics in Therapeutic Recreation in the UK (London, England/Stirling, Scotland) and ties in dementia care site observations and training with St. Christopher's Hospice and Stirling University Dementia Studies program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**REC 5321. Issues and Trends in Recreation and Leisure Services.**

A seminar style course where students investigate current events on the provision of services. This course will address that need

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5325. Philosophical Foundations of Therapeutic Recreation.**

Course covers therapeutic recreation practices, history of the profession, current trends, and various disabilities and disorders across the lifespan. Through field-based activities, students will develop skills and abilities necessary to provide services to persons with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5326. Advanced Practices and Interventions in Therapeutic Recreation.**

This course addresses advanced practices and intervention strategies for provision of services to persons with disabilities. Students will gain an understanding of theoretical models and learn how to apply these models when analyzing activity selection and documenting client outcomes.

Prerequisite: REC 5325 or REC 5318F

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5327. Advanced Assessment and Documentation in Therapeutic Recreation.**

This course provides for the study of advanced assessments and documentation related to persons with disabilities. Students will gain an understanding of standardized assessments in therapeutic recreation, including composition, implementation, and evaluation of results.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5328. Advanced Principles of Therapeutic Recreation.**

In this course students apply advanced principles of therapeutic recreation related to persons with psychological disorders and physical disabilities. The course engages students in advanced case study design and implementation of treatment plan utilizing a transdisciplinary approach to rehabilitation. Prerequisites: REC 5318F or REC 5325 and REC 5318G or REC 5326

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5329. Therapeutic Recreation in Psychiatric Settings.**

This course applies an advanced approach of Leisure Education (LE) in the rehabilitation process for persons with psychiatric disorders. Students will have the opportunity in a field-based setting to develop skills and abilities necessary to implement LE in treating persons.

Prerequisite: REC 5318F or REC 5325

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5330. Applications of Management and Leadership in Leisure Services.**

This course provides an exploration of management issues within recreation administration with an emphasis on the role of the leader as a conduit for effectiveness. Content will include theories and philosophies, processes, accountability, strategic planning, and conflict resolution applications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5337. Independent Study in Recreational Administration.**

Individual study related to recreational administration under direct supervision of a faculty member. May be repeated for additional credit at the discretion of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5338. Internship in Therapeutic Recreation.**

This course provides students the opportunity to complete an intensive, on-site internship under the supervision of a Nationally Certified Therapeutic Recreation Specialist. Students will complete 480 hours in a clinical or community setting. Prerequisite: All master-level coursework required by degree plan and National Council for Therapeutic Recreation Certification guidelines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5340. Social Psychology of Recreation and Leisure.**

To provide an introduction and overview of the personal, social and social-psychological contexts of leisure; utilizing current literature the course will focus on examining leisure and recreation behavior from psychological, sociological and social-psychological constructs that are contributing to a contemporary, interdisciplinary understanding of the leisure phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5346. Literature and Research.**

Directed reading, reports, and discussions of the current literature in the field of education, a critical analysis of research techniques and the locations and securing of information, together with the steps necessary to the solution of research problems in this field

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5350. Legal and Ethical Issues in Recreation and Leisure Services.**

A seminar style course that focuses on legal and ethical issues related to recreation and leisure services. Tort law, participant rights, accessibility, credentialing, and others are topics to be addressed in this course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5360. Applications of Marketing and Finance in Recreation.**

This course is a study of marketing and financial concepts, principles, and techniques as they relate to recreation and leisure delivery systems. These include full cost accounting, pricing, financial management, distribution, promotional techniques, marketing plans, alternative funding and proposals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5380. Administering Leisure Delivery Systems.**

This course content provides students with program development and administration tools developed and tested within the recreation industry. Topics may include the exploration of programming and organizational theory, administrative processes, and the application of the organizational principles to the recreation service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in REC 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5399B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5599B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 5999B. Thesis.**

This course represents a student's continued thesis enrollment. No thesis credit is awarded until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**REC 7378. Independent Study.**

Individual problems or topics will be designed and completed to emphasize selected areas of study in the Health, Physical Education, Recreation, and Dance Department. May be repeated for additional credit at the discretion of the program coordinator

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REC 7389A. Current Issues in the Administration of Recreation and Leisure Services.**

Topics vary and include the study of leadership issues related to Recreation and Leisure Services. Philosophical and historical foundations of recreation, leisure, and play with the intent of providing students a leadership base upon which to interpret the recreation and leisure services profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**REC 7389B. Current Issues in Recreation and Leisure Services.**

The purpose of this course is to develop an increased understanding of current issues in the fields of health, physical education, and recreation in order to be more effective leaders of educational organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

## Religion (REL)

**REL 1300. World Religions.**

This course will be a survey and comparative study of the major religions of the world including Judaism, Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, and the Indigenous Religions. Recommended as an entry course for religion minors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2310. Introduction to the Hebrew Bible.**

An introduction to the contemporary academic study of the Hebrew Bible ("Old Testament") and related Near Eastern and Second Temple Jewish literature. Representative texts will be examined using the historical and literary methods of scholarship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2315. Introduction to the New Testament.**

An introduction to the contemporary academic study of the New Testament, including apocryphal and post-canonical works.

Representative texts will be examined using the historical and literary methods of scholarship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2321. Founders, Prophets and Saints.**

Critical analysis of the life, works, and thought of a major religious figure, e.g., Jesus, Paul, Luther, St. Teresa, Maimonides, the Baal Shem Tov, Mohammad, al-Ghazzali, Rumi, Buddha, Gandhi. May be repeated for credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 2350. Mediterranean and European Religions.**

This course is a survey of religions that originated in the Near East, Mediterranean, and Europe, with emphasis on the ancient to medieval periods. The course includes Judaism, Christianity, and Islam, in the contexts of Egyptian, Persian, Greco-Roman, and old European traditions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**REL 2360. Asian Religious Traditions.**

This course is a survey of the major religious traditions originating in Asia: Hinduism, Buddhism, Taoism, and others. Basic doctrines and practices will be covered in an historical framework. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3330. Religious Controversy in America.**

Students in this course will analyze religious controversies and crises in America from the colonies to the present in order to interpret the role of religion in American history, culture, law, and politics. Topics include the Salem Witch Trials, the Jim Jones massacre, and Ten Commandments monuments on government property. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3335. Cults and New Religious Movements.**

This course will investigate New Religious Movements (NRMs) primarily within the contemporary American context. Controversial and emerging religions can be approached from many angles. Accordingly, the course will introduce students to a variety of theoretical perspectives and approaches for studying NRMs. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3340. Religion, Literature, and the Arts.**

The course features a thematic selection of literary and artistic works in order to examine the connections and disconnections between the aesthetic and religious aspects of human culture. May be taken twice for credit with different topics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3342. The Homeric Epic: The Iliad and the Odyssey.**

A close reading of the Iliad and the Odyssey in English translation, with emphasis on philosophical and religious issues. Prominent topics include the gods, religious rituals, heroic ethics, and the human condition. The course also considers the concept of a classic in religion and literature. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361A. Religion and Film.**

This course examines how religions are reflected in film and how films have taken on some of the functions of religion. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361B. Mysticism.**

This course explores the dimension of mysticism that pervades both Western and Eastern religious traditions. We will analyze the nature of mystical experiences through a study of key figures and texts, and examine its peculiar relationship to language, arts, and human subjectivity and its place in the wider social context. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3361C. Philosophical Issues in Judaism, Christianity, and Islam.**

This course provides a comparative perspective on philosophical issues that arise in Judaism, Christianity, and Islam, including the nature of God, reason and revelation, and religious ethics. Readings will draw on both classical and contemporary sources. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**REL 3370. Mythology and Cosmology.**

This course examines human efforts to address questions of cosmic origins, with a global, comparative survey of cosmogonic (creation) myths and a historical approach to modern cosmology. It examines the features and functions of mythopoetic and scientific thought, and reflects philosophically on questions of origin and meaning. May be taken twice for credit with different topics

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REL 3372. Apocalypticism.**

An historical-cultural survey of end-of-the-world literature, art, and thought in Western Civilization, from ancient Judaism and Christianity to the present. Historical and scientific methods provide the framework for this course. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3381. The Philosophical and Spiritual Heritage of India.**

Indian philosophers predominantly present a spiritual, multi-dimensional outlook on the nature of reality and human consciousness; they combine reason, experience, yoga and meditation as methods of inquiry. This course will explore Indian spiritual philosophy from the time of the ancient Vedas to the contribution of modern sages. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 3385. Buddhism.**

This course surveys the main ideas, myths, symbols and practices of the diverse forms of Buddhism. Students will also get acquainted with the manner in which Buddhist perspectives have influenced social values and arts in the South East and East Asian cultures. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**REL 4300. Advanced Methods in Religious Studies.**

This course provides a rigorous grounding in the intellectual tradition of academic religious studies. It includes the major theorists and a sustained examination of the problem of method. This course is strongly urged for RS minors and students intending graduate work in the field. Prerequisite: At least one course from those included in the minor; two recommended

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**REL 4388. Problems in Religion.**

Independent study of specific topics in religion. Open to students on an individual or small group basis. May be repeated for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REL 5300. Advanced Methods in Religious Studies.**

This course provides a rigorous grounding in the intellectual tradition of academic religious studies. It includes the major theorists and a sustained examination of the problem of method. The graduate course prepares students to position themselves within the field, construct robust research questions, and apply appropriate methods in their scholarship

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**REL 5365. Philosophical Issues in Judaism, Christianity, and Islam.**

A comparative perspective on philosophical issues that arise in Judaism, Christianity, and Islam, including the nature of God, reason and revelation, and religious ethics. Readings will draw on both classical and contemporary sources, in dialogue with the secondary literature and methodological issues in religious studies. Prerequisite: PHIL 4300 or PHIL 5300 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**REL 5388. Independent Study.**

Independent graduate study of topics in religious studies. Only available with approval of a faculty member. Topics vary. Repeatable for credit with different topics and instructors. Permission of instructor required to enroll. Prerequisite: REL 4300 or REL 5300 with a grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

## Respiratory Care (RC)

**RC 2213. Introduction to Respiratory Care.**

This course offers an in-depth overview of the respiratory care profession to acquaint the student with the responsibilities of the respiratory therapist as part of healthcare team. Progression of the profession, career opportunities, past and future impact of profession on patient recovery and health maintenance, and medical gas therapy will be covered

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3125. Pulmonary Function Testing.**

This course examines the most common pulmonary function tests, their techniques, and the pathophysiology that may be evaluated by each test. Pulmonary function equipment, calibration, and the American Thoracic Society guidelines will be discussed. Laboratory practice of performing the tests will be provided to develop skills for testing patients

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3212. Pharmacology.**

A comprehensive study of pharmacology principles. Receptor theory, clinical applications of medications, and historical analysis of first-generation medications will be covered. Current medication trends and recommendations are also examined

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3232. Hemodynamics.**

This course is an advanced study of cardiovascular hemodynamic measurements. Normal cardiovascular physiology and measures are examined, as well as variations caused by disease. Current clinical trends and practices in hemodynamic procedures are also explored

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3313. RC Clinical Practice I.**

This course provides an introduction to respiratory care clinical skills, including vital signs, chest assessment, infection control, aerosolized medication delivery, oxygen therapy, hyperinflation therapy, and airway clearance. This course prepares the student for direct patient care to be performed in more advanced courses. Direct patient care is performed under close supervision

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3314. Respiratory Care Instrumentation.**

Through lectures and lab exercises, students are acquainted with concepts of design, function, and operation of basic respiratory care equipment. Oxygen cylinders, regulators, flowmeters, oxygen analyzers, oximeters, oxygen adjuncts, humidifiers, nebulizers, airways, and pressure cycled ventilators will be covered. The course also covers respiratory pharmacology, decontamination of equipment, and arrhythmia recognition

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3315. Cardiopulmonary - Renal Anatomy & Physiology.**

This course provides an in-depth human gross anatomy study of the cardiac, respiratory, and renal systems. Clinical application of pulmonary anatomy and physiology will also be explored

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3316. Fundamentals of Respiratory Care.**

This course provides a study of theories and modalities utilized in delivering, monitoring, and evaluating basic respiratory therapeutics to patients with compromised respiratory function in various healthcare settings. Aspects of artificial ventilation, arterial blood gas analysis, lung volume diagnostics, and hyperinflation intervention will be covered in patient scenarios

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3321. Cardiopulmonary Pathology.**

As an introduction to the assessment, treatment, and pathophysiology of respiratory diseases, this course focuses on the signs, symptoms, etiology, pathophysiology, diagnosis and treatment of selected diseases. Utilizing clinical simulation software to develop critical thinking regarding assessment, diagnostic data gathering. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RC 3322. Critical Care Concepts.**

This course provides students with an in-depth study of selected respiratory care techniques with an emphasis on the care of critically ill patients. Critical skills and knowledge of mechanical ventilation, bedside diagnostic techniques, patient monitoring, and rehabilitation are explored in the critical care setting

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**RC 3323. RC Clinical Practice II.**

Students perform clinical procedures and interact with patients and professional personnel in a healthcare institution under the supervision of a respiratory therapist. Students gain direct patient care experience as presented in medical/surgical and pediatric clinical situations. Preparatory instruction is provided for mechanical ventilation and other critical care procedures

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3324. Critical Care Instrumentation.**

A comprehensive study of advanced equipment and technology utilized in the critical care, homecare, pulmonary rehabilitation and blood gas lab settings. Lectures and class activities will detail hardware for hemodynamic monitoring, supplemental oxygen administration, noninvasive monitoring, blood gas measurement, quality control and assurance and mechanical ventilator concepts

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3333. RC Clinical Practice III.**

A supervised clinical education experience in which the student administers advanced respiratory therapeutics to patients in the adult critical care setting. Diagnostic and monitoring procedures, including arterial blood gases, bedside physiologic monitoring, airway care, advanced pulmonary function testing, ventilator management will be performed according to physician orders

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3334. Neonatal Respiratory Care.**

An in-depth study of neonatal utero development, fetal lung development, fetal circulation, and cardiovascular changes at birth. Neonatal respiratory emergencies, neonatal respiratory diseases and management, congenital defects, and respiratory care procedures specific to the neonate will be discussed. A specific emphasis on neonatal mechanical ventilation will be included

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 3335. RC Clinical Practice IV.**

This course provides an advanced clinical education experience in respiratory therapeutics on patients in the adult critical care setting. Appropriate clinical expectations include experience in arterial blood gas procurement and measurement, bedside physiologic monitoring, airway care, and monitoring of mechanical ventilation in the intensive care unit

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4211. Respiratory Care Research.**

This course provides an introduction to applied experimental design, research ethics, and data analysis focusing on the respiratory care profession. Students will participate in each step the research process from developing a personal research hypothesis and research design through IRB submission. Prerequisite: HP 3302 or equivalent

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4212. Critical Care Clinical Simulation.**

This course will prepare respiratory care students to successfully navigate multiple clinical simulation patient cases. Clinical simulations covered reflect real-life patient scenarios and mirror the content found on national board exams. Students will receive focused attention on board exam review and evidence-based care

**2 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4223. ICU Internship.**

Through affiliations with agencies, hospitals and selected treatment centers, the student interns in the intensive care setting by providing patient care and administering critical care therapeutics. Analysis and clinical application of advanced ventilator care of patients is emphasized along with patient care diagnostics and management in the ICU

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**RC 4224. Research Seminar.**

A study of the research process from a review of research design to methodology implementation including data collection, statistical analysis, and presentation of a research proposal on a topic in the respiratory care discipline. The course provides direct research experience culminating in a research paper and presentation.

Prerequisite: RC 4211

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4225. Specialization Internship.**

This course provides the student with an internship opportunity to gain clinical experience in sub-specialty areas including pediatrics, adult intensive care, neonatal intensive care, pulmonary function testing, home care/durable medical equipment, subacute care, pulmonary rehabilitation, polysomnography, education, and research. Specific specialty offerings will be based on clinical availability

**2 Credit Hours. 0 Lecture Contact Hours. 8 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**RC 4314. Advanced Ventilator Concepts.**

This course provides an in-depth study of specific adult mechanical ventilators addressing traditional and proposed ventilator classification, various methods of operation, parameter interrelationships and ventilator patient monitoring. Lectures and class activities will focus on ventilator analysis of several contemporary volume-, time-, pressure- and flow-cycled ventilators with advanced graphics interpretation required

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4316. RC Clinical Practice IV.**

This course provides an advanced intensive care clinical education requiring students to monitor and administer critical care therapeutics on assigned patients in the adult and neonatal critical care setting. Cardiopulmonary diagnostic experience will be gained through arterial blood gas and co-oximetry assessment with ventilator graphic analysis

**3 Credit Hours. 0 Lecture Contact Hours. 16 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4317. Pulmonary Rehabilitation.**

This course is designed to introduce students to the medical, ethical, and insurance reimbursement issues of pulmonary rehabilitation, homecare, and sleep diagnostic facilities. The role of therapists in case management, treatment requirements, and discharge planning along with the impact of legislation, regulations, and politics will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 4318. Independent Study in Respiratory Care.**

This course provides the student an in-depth study on a topic or healthcare problem impacting respiratory care. The course may be repeated for credit with a different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**RC 4321. Leadership and Management for Respiratory Care Professionals.**

This course is designed to comprehensively examine the dynamic evolution of respiratory care as a profession. The role of the respiratory care professional in the areas of leadership, management, and professional ethics will be explored with regards to the profession's impact on legislation, regulation, and politics. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RC 4322. RC Practitioner Seminar.**

Students will research and present selected case studies by students to physicians, therapists, and colleagues. Presentations will emphasize total patient management with etiology, symptoms, pathophysiology, diagnosis, and treatment of specific diseases including asthma, pulmonary embolism, CHF, COPD, ARDS, neurologic diseases, inhalational injury, pneumonia, sleep disordered breathing, AIDS, and drug overdose. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**RC 5211. Polysomnography Instrumentation I.**

Designed to teach the function, operation, and design of electroencephalographic equipment. Monitoring devices, electrode application, and patient connection will be covered in detail. Prerequisite: Departmental approval

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5214. Polysomnography Instrumentation II.**

Advanced study of waveform characteristics and montage development, filters, and PSG electronics. Signal pathways, reference electrodes, impedance checking and filter settings in calibration waves will be covered. Prerequisite: Departmental approval

**2 Credit Hours. 0 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5215. Clinical Polysomnography-Sleep Staging II.**

Advanced clinical education in sleep staging rules, light, delta and REM sleep scoring and analysis. EEG, EMG, ECG and respiratory events will be discussed in depth and are components of the polysomnogram report. A research project and presentation will be assigned by the faculty.

Prerequisite: Departmental approval required

**2 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5310. Fundamentals of Polysomnography.**

Introduction to the physiology of sleep, including sleep neurology, sleep architecture, and classification of sleep disorders. Review of basic cardiac physiology and ECG arrhythmia recognition. Sleep pathologies will be discussed according to etiology, pathophysiology, symptoms, diagnosis, treatment, and prognosis. Prerequisite: Departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5312. Clinical Polysomnography-Sleep Staging I.**

Direct patient diagnostic monitoring is performed under close supervision in a sleep lab. Differential amplifiers, amplifier calibration, artifact correction and the professional role of the sleep tech will be demonstrated. A research project and presentation will be assigned by the faculty. Prerequisite: Departmental approval required

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**RC 5313. Polysomnographic Therapeutic Intervention.**

In-depth study of the treatments available for sleep apnea including, CPAP, BiPAP, oxygen therapy, patient adjunctive fitting, surgical intervention, and the role of the sleep tech in titration. Special attention will be given to titration algorithms, nocturnal seizure disorder studies, REM behavior disorder studies, MSLT's, and MTW's. Prerequisite: Departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## School Psychology (SPSY)

**SPSY 5178. Independent Study.**

This course includes individual problems or research topics designed to place emphasis on selected areas of study. It may be repeated for additional credit at the discretion of the department chair

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPSY 5300. Interviewing, Counseling, and Consulting in School Psychology.**

This course includes acquisition of skills for conducting interviews, counseling, consulting, and collaborating with children, adolescents, and adults. The emphasis is upon the development of basic communication skills that can be applied by the school psychologist in a variety of multicultural contexts, with an emphasis on family-school collaboration

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5355. Assessment of Culturally and Linguistically Diverse Students.**

This course will focus on the psychoeducational assessment of students from culturally and linguistically diverse backgrounds for purposes of special education eligibility and for instructional decision making. A major emphasis is placed on learning nonbiased assessment methods and procedures to assess language proficiency, intelligence, academic skills and personality-behavioral functioning. Restricted to students in the School Psychology SSP Program. Prerequisite: SPSY 5394 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5356. Psycholinguistics of Second Language Acquisition.**

This course will focus on the linguistic and psycholinguistic underpinnings of the bilingual brain. It will provide a comprehensive introduction to the foundations of bilingualism, covering language processing, and language acquisition. Topics will include simultaneous and sequential bilingualism, language selection and switching, cognitive consequences of bilingualism, and the bilingual brain. Restricted to students in the School Psychology SSP program. Prerequisites: SPSY 5394 and SPSY 5355 with grades of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5376. Psychoeducational Assessment.**

This course focuses on the administration, scoring, and interpretation of individually administered standardized tests of intelligence, special abilities, and achievement. The theoretical and statistical bases of the tests used, integrative report writing, and learning disabilities are also covered. Prerequisites: Enrollment in a graduate program and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5377. Social, Emotional, and Behavioral Assessment.**

This course covers the evaluation of personality, mental status, and behavior. This includes the theoretical bases, construction, administration, scoring, and interpretation of structured and projective personality tests with integrative report writing emphasizing the assessment of emotional disturbance and behavior disorders. Prerequisites: PSY 5376 or its equivalent, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5378. Problems - School Psychology.**

This course includes individual problems not related to thesis or research problems. It is designed to place emphasis on selected areas of study. It may be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5379. Child and Adolescent Psychopathology: Advanced Assessment and Interventions.**

This course includes the advanced investigation of personality dynamics and diagnosis of psychopathology through advanced projective techniques and structured instruments. Students practice comprehensive report writing emphasizing intervention recommendations. Prerequisites: PSY 5376 and PSY 5377, or the equivalents, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5380. Individual and Group Counseling Techniques for School Psychology.**

This course focuses on the acquisition and practice of techniques used in counseling interventions with children and adolescents in school settings. Individual and group counseling techniques are emphasized, along with a review and refinement of techniques for interviewing and consulting with parents. Prerequisites: COUN 5368, COUN 5307, and SPSY 5300

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5382. Program Evaluation in School Psychology.**

This course introduces the theory and techniques of program evaluation with an emphasis on K-12 educational settings. It includes program evaluation conceptualization, planning, implementation, methodological and ethical issues, and analyzing and reporting results. Emphasis is placed on experimental and quasi-experimental methods commonly used in the evaluation of educational programs. Restricted to students in the School Psychology SSP program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5385. Ethics, Standards, and Procedures in Professional School Psychology.**

This course includes the presentation of historical foundations, role and functions, and procedures used by psychologists in the school setting. Emphasis includes ethical and legal issues, professional standards, state and federal law, and organization and operation of the schools as applied to the mental health and education of exceptional learners. Prerequisite: Enrollment in the School Psychology Program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5386. Consultation and Professional Issues in School Psychology.**

This course presents models of consultation as they apply to the professional development and ethical position of the school psychologist. The course emphasizes the consultative role in relation to school administrators, guidance and counseling personnel, teachers, parents, students, and referral sources. Prerequisites: Completion of SPSY 5300, SPSY 5385, and concurrent enrollment in SPSY 5389

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5387. Data-Based Decision-Making in Evaluation and Intervention.**

This course covers advanced techniques for assessment of special populations, including early childhood, and integration of information from a variety of sources for the development of educational interventions. A problem solving approach that focuses on linking evaluation and intervention processes will be utilized throughout the course. Prerequisite: SPSY 5376

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5388. Psychometrics for School Psychologists.**

This course includes theoretical and empirical aspects of psychological measurement, scale development and testing for school psychologists. Topics include the statistical foundations of psychological measurement; stimulus and response-based measurement; social, legal, and ethical implications of testing; test and item bias; score reliability and validity; factor analysis; generalizability theory; and item response theory

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5389. Practicum in School Psychology.**

Three practicum experiences occur in a school or agency setting with supervision by on-site and university supervisor. This course must be repeated for a total of nine credit hours. Graded on a credit (CR), no credit (F) basis. Prerequisites: Completion of SPSY 5385, and SPSY 5376, graduate standing in the School Psychology Program, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SPSY 5391. Research Seminar.**

This course provides students with knowledge of the nature and techniques of social science research. Students will develop research literacy through critical reading and examination of both quantitative and qualitative research. Additional emphasis is given to the relationship and application of science to professional practice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SPSY 5394. Multicultural Issues in School Psychology.**

The course provides a broad overview of the psychosocial, psychoeducational and multicultural issues surrounding the delivery of psychoeducational services to students in school systems. The course will help the student develop cross-cultural sensitivity when conducting assessments, providing consultation and performing other interventions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5396. Biological Bases of Behavior.**

This course covers atypical disorders of brain development or function, particularly those likely to be encountered in the practice of school psychology. It includes an overview of neuropsychological and other tests with emphasis on development of a comprehensive assessment and intervention model through interpretation and critique or case studies. Prerequisite: Completion of SPSY 5376, SPSY 5377, graduate standing, and consent of the instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 5398. Alternative Evaluation, Intervention, and Student Outcomes.**

This course introduces students to the practice of curriculum based assessment in the context of a problem solving model of psychological services in the schools. Lectures, assignments, and activities develop competencies in the areas of non-traditional assessment, development of academic interventions, and the evaluation of student outcomes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPSY 6301. Professional Internship in School Psychology.**

Professional internship may be a continuation of the supervised school based experience or a placement in an appropriate alternative setting with supervision by a licensed psychologist. A minimum of 600 clock hours of experience is required. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPSY 6302. Professional Internship in School Psychology.**

Professional internship may be a continuation of the supervised school based experience or a placement in an appropriate alternative setting with supervision by a licensed psychologist. A minimum of 600 clock hours of experience is required. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Social Work (SOWK)

**SOWK 1350. Introduction to Social Work.**

This introductory survey course includes the nature, function, and various types of social work practice, acquainting the student with the history, scope, and values of the profession

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SOCW 2361

**SOWK 2320. Love and Relationships.**

This elective course explores the nature of attraction, friendship, love, and human sexuality, enabling students to enhance their own personal and professional relationships

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 2375. Social Services in the Community.**

This undergraduate course introduces the organizations and policies involved in social services delivery. Students participate in 50 hours of work as supervised observers and volunteers in selected social service agencies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3305. Seminar in Human Behavior and Social Environment I.**

This undergraduate course provides an overview of human functioning in the environment by studying eco-systems and developmental frameworks. It builds knowledge and values for practice with task groups, organizations, and communities. Prerequisites: Official Social Work major; complete SOWK 3420 or instructor consent

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 3312. Alcoholism and Chemical Dependence.**

This elective course focuses on commonly used and abused drugs as well as the dynamics and treatment of addiction and alcohol abuse. It emphasizes direct social work interventions aimed at addiction prevention and treatment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3332. Helping Troops Transition Back to their Families and Communities: The Invisible Wounds of War.**

The course examines topics at the individual, family, group, organizational, and community levels related to troops who are returning from current combat operations and their families. It reviews the needs, community resources, and policies in place for helping them and their families make this transition. Prerequisite: Upper division undergraduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3339. Selected Topics in Social Work.**

Students study relevant social work topics in depth. Topics, such as social work in prisons or in mental health facilities, are selected according to students' needs and professional trends. Repeatable for credit with different emphases

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 3340. Social Work Research.**

This undergraduate course builds foundation scientific research skills in critical thinking, knowledge of program and practice evaluation, and a philosophy of generalist social work practice. Prerequisites: HP 3302 or HP 3325 or CJ 3347 or PSY 3301 or SOCI 3307; official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3350. Connecting Policy and Practice.**

This course describes contemporary American Social Welfare and illustrates social work professional practice within policy guidelines. It focuses on practice with involuntary clients in a variety of agency contexts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 3420. Social Work Practice I.**

This undergraduate course studies generalist theory and application of social work practice with individuals, families, and groups, including introductory data collection, assessment, intervention planning, and evaluation. Prerequisites: Official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 3425. Social Work Practice II.**

This undergraduate course emphasizes generalist social work practice with task groups, organizations, and communities, examining data collection, assessment, intervention, planning, implementation, and evaluation. Students develop and implement a community-based project. Prerequisites: SOWK 3420; official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4305. Seminar in Human Behavior and Social Environment II.**

This undergraduate course integrates knowledge from social sciences and SOWK 3305, focusing on individuals, families, and small groups functioning in environments. It uses a bio-psychosocial perspective, expanding on eco-systems, developmental, and values frameworks.

Prerequisites: Official Social Work major; and SOWK 3305. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4310. Diversity and Social Justice in Social Work.**

This undergraduate course focuses on knowledge and skills necessary for effective, ethical, and just practice, exploring interpersonal and institutional dynamics of racism, sexism, heterosexism, homophobia, classism and other forms of oppression and their effects on providing social services to diverse populations. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOWK 4315. Child Welfare.**

This undergraduate elective course analyzes child welfare services available to abused and neglected children in their own homes, in substitute care, and through the community, emphasizing social work intervention with children and their families

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4318. Social Work and Health Care.**

This undergraduate elective course provides a generalist view of social work practice in mental health and public health, considering the social problems that affect health care, and ethical and effective intervention strategies and service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4320. Social Work with Older Adults.**

This undergraduate elective gives a comprehensive introduction to contemporary social problems, values, and issues affecting older adults, and effective and ethical intervention strategies and service delivery systems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4355. Policy Practice.**

This course is an overview of social policy and legislation and the processes of influencing public policy. It links policy with a broad range of social work service areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 4356. Professionalism in Social Work.**

This course builds skills in self-presentation, in taking responsibility for personal and professional growth, in learning professional behaviors in organizations, and in presenting court testimony. Prerequisite: SOWK 3425 official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOWK 4360. Directed Study in Social Work.**

This one-semester undergraduate course highlights individualized reading, independent study and projects, and guided instruction. It is offered to superior students by the professor's invitation and with the consent of the BSW Coordinator. This course may not be repeated for credit. Prerequisite: official Social Work major

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOWK 4425. Social Work Practice III.**

This undergraduate course emphasizes interpersonal and communication skills necessary for effective, ethical generalist social work practice. Students translate theory into helping behaviors through practice and feedback to develop competent skills for beginning field placement. Prerequisites: SOWK 3425; official Social Work major. (WI)

**4 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**SOWK 4645. Beginning Field Practice in Social Work.**

Undergraduate students engage in generalist social work in agencies, supervised by licensed social workers and the field coordinator. Students work a minimum of 270 clock hours, attend seminars, and complete assignments. Prerequisites: Completion of all Phase II course requirements, and application to field coordinator

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**SOWK 4650. Advanced Field Practice in Social Work.**

This undergraduate course extends SOWK 4645. Students, supervised by licensed social workers and the field coordinator, apply advanced generalist techniques for a minimum of 270 clock hours, attending seminars, and completing assignments. Prerequisites: Completion of all Phase II course requirements, and application to field coordinator

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Course Attribute(s):** Dual Enrollment Permitted|Time Conflicts Permitted

**Grade Mode:** Standard Letter

**SOWK 5308. Human Behavior in Individual and Family Social Environments.**

This foundation graduate course presents individual and family dynamics across the life cycle, centering on human development, individual and group strengths, and the effects of cultural diversity. It enhances critical thinking and assessment skills about human behavior in social environments, and incorporates material on professional values, ethics, and social justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5309. Human Behavior in Local and Global Social Environments.**

This foundation graduate course explores human functioning in the environment by studying families, groups, communities, organizations, and societies in local and global contexts. Through learning content on diversity, populations at risk, and social and economic justice, students build critical thinking and assessment skills using developmental and eco-systems frameworks

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5310. Social Welfare Policy and Services.**

This foundation course studies the United States' social welfare system, emphasizing how social welfare policies affect diverse populations.

Topics include social welfare history; and policy development, implementation, evaluation, and values. Prerequisite: Instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5312. Social Work Intervention in Drug Addiction & Abuse.**

This elective course focuses on commonly used and abused drugs as well as the dynamics and treatment of addiction. It emphasizes social work intervention aimed at addiction prevention and treatment.

Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5313. Foundation Social Work Practice I.**

This foundation course explores generalist social work theory and practice methodology in problem-solving with individuals, families, and groups, emphasizing data collection, assessment, intervention planning, and evaluation. Prerequisite: Admission to the M.S.W. degree program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5314. Foundation Social Work Practice II.**

This foundation skill-development course emphasizes generalist social work practice with task groups, organizations, and communities.

Prerequisite: Admission to the M.S.W. degree program

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5315. Social Work Intervention in Child Abuse & Neglect.**

This elective course considers child welfare services available to abused and neglected children in their own homes, in substitute care, and through the community, emphasizing social work intervention with children and their families. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5316. Foundation Social Work Practice III.**

This foundation course develops the student's interpersonal and communication skills with clients and other professionals. Students must demonstrate competence in interviewing, assessment, and planning skills. Students learn to collect data to support assessment, plan intervention, and evaluate practice. Prerequisites: SOWK 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5317. Social Work Research.**

This foundation course builds introductory scientific research skills in critical thinking and knowledge of program and practice evaluation. It prepares students to read, interpret, and critique research with skepticism and rigor and to perform various research and social work practice activities. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5319. Diagnostic Assessment.**

This advanced course examines how individuals, families, and groups interact with the social environment, emphasizing mental health and adaptive capacity, theories of the etiology and development of mental and emotional disorders, and how culture affects mental health. Prerequisites: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5320. Advanced Administrative Leadership Practice I: Introduction to Management.**

This advanced skill-development course emphasizes social work practice in managing small and large organizations. Students develop knowledge and skills in social work management and supervision in non-profit and public organizations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5322. Advanced Social Policy and Social Justice.**

This advanced course, a study of social legislation affecting disadvantaged persons, emphasizes policy analysis, values, and advocacy through studying social policy history; developing, implementing, and evaluating policy; and influencing social and economic justice. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5323. Advanced Social Work Research.**

This advanced course builds knowledge and skills for systematically evaluating programs and practice. It enhances effective and ethical social work practice by teaching skills necessary to design, implement, and empirically assess intervention with client and programs. Prerequisites: SOWK 5317, advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5324. Advanced Direct Practice with Families.**

This advanced course focuses on theories, research, and models of practice with families. It emphasizes a systems orientation to assessment and intervention, and integrates issues of self-awareness and human diversity. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5325. Advanced Administrative Leadership Practice III: Challenges and Innovations.**

This advanced course expands knowledge and skills by exploring how theories, supervision and management interventions, and social work values are applied to diverse organizational environments. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5326. MC/MP Advanced Direct Practice with Individuals.**

This advanced course examines intervention theories and builds specialized skills for effective, ethical practice with individuals. It examines how culture influences individuals, and discusses how to assess individuals from multiple perspectives. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5327. Advanced Direct Practice with Groups.**

This advanced course develops effective, ethical group practice skills, including assessment from multiple perspectives, facilitation of group process and intervention, evaluation, and addressing needs of diverse populations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5328. Interdisciplinary Perspectives on Aging.**

This interdisciplinary course provides a graduate-level foundation in knowledge and skills used to address a wide range of needs among the aging population, their families, and support systems. Biophysical, psychosocial, and environmental perspectives will be integrated into development of culturally competent approaches to work with elders in many fields. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5329. Organizational Development.**

This advanced course examines organizational and inter-organizational social service delivery contexts; how funding, mandate, and organizational arrangements influence services; and factors to consider in modifying existing organizations. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5332. Helping Troops Transition Back to their Families and Communities: The Invisible Wounds of War.**

The course examines topics at the individual, family, group, organizational, and community levels related to troops who are returning from current combat operations and their families. It reviews the needs, community resources, and policies in place for helping them and their families make this transition. Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5334. Advanced Administrative Leadership Practice II: Resource Development.**

This advanced course emphasizes grant-writing and marketing in non-profit organizations. It builds knowledge, roles, and skills to extend organizational resources for effective, ethical social work practice and programs. Prerequisite: Advanced standing, foundation coursework completion, or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SOWK 5339. Selected Topics in Social Work.**

Students study relevant social work topics in depth. Topics, such as social work in schools or in health care, are selected according to students' needs and professional trends. Repeatable for credit.

Prerequisite: Graduate standing or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5360. Directed Study in Social Work.**

This one-semester course highlights individualized reading, independent study and projects, and guided instruction. It is offered by invitation of the professor and with the consent of the MSW Coordinator. It may not be repeated for credit. Prerequisites: Graduate standing and the approval of the MSW Coordinator and School Director

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5370. Advanced Program Planning and Grant-Based Resource Development.**

This advanced course emphasizes social work practice in building and developing non-profit and public human services organizations. Course topics include: determining organizational needs and priorities; identifying resources to address needs and priorities; and pursuing grant-funded resources to address organizational needs. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5371. Advanced Assessment, Leadership, and Supervision in Social Service Organizations.**

This advanced course focuses on observational and interview-based evaluations of organizational functioning related to change, diversity, ethical decision-making, budgeting, and implementation of action plans. The course also focuses on development of supervisory strategies to effectively lead and transform an organization. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5372. Advanced Diagnostic Assessment and Intervention with Individuals.**

This advanced course focuses on culturally relevant diagnostic assessment of and intervention with individuals based on current theory. The course emphasizes critical analysis of contemporary mental health practice using a psychosocial framework. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5373. Advanced Intervention with Families and Groups.**

This advanced course focuses on culturally-relevant knowledge and skills for theory-based, therapeutic assessment and intervention with diverse families and groups. The course emphasizes systemic, critical analysis of contemporary mental health practice using a psychosocial, strengths-based framework. Requires advanced standing or completion of foundation coursework. Departmental approval required to enroll

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5410. Foundation Field I (Concurrent).**

This foundation course consists of supervised beginning generalist social work practice in agencies for a minimum of 250 clock hours, applying classroom knowledge to work with individuals, families, groups, and communities. Prerequisites: Admission to MSW degree program and completed field application process

**4 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5411. Foundation Field II (Concurrent).**

This second foundation course continues supervised generalist social work practice in agencies for a minimum of 250 clock hours, applying classroom knowledge to work with individuals, families, groups, and communities. Prerequisites: SOWK 5410 and Field Coordinator approval

**4 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5612. Direct Practice Field I.**

This course offers supervised advanced direct social work practice opportunities to apply classroom knowledge to interventions with individuals, families, and groups in agencies for a total of 300 clock hours. Prerequisites: Completion of field application process and completion of MSW class work

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5613. Direct Practice Field II.**

This course continues supervised advanced direct social work practice opportunities to apply classroom knowledge to interventions with individuals, families, and groups in agencies for a total of 300 clock hours. Prerequisites: Field Coordinator approval

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5622. Administrative Leadership Field I.**

This course offers supervised advanced administrative leadership social work practice opportunities to apply classroom knowledge to interventions with public and non-profit social agencies for a total of 300 clock hours. Prerequisites: Completion of field application process and completion of MSW class work

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5623. Administrative Leadership Field II.**

This course continues supervised advanced administrative leadership social work practice opportunities to apply classroom knowledge to interventions with public and non-profit social agencies for a total of 300 clock hours. Prerequisites: Field Coordinator approval

**6 Credit Hours. 1 Lecture Contact Hour. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5678. Advanced Practicum 1.**

This course is the first part of the advanced MSW practicum in which students participate in supervised social work practice internships in community agencies and facilities. Students apply classroom knowledge to activities and interventions serving individuals, families, groups, and communities for a minimum of 300 semester clock hours. Departmental approval required to enroll. Prerequisite: Completion of all MSW coursework. Co-requisite: SOWK 5679 unless enrolled in part-time student status

**6 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOWK 5679. Advanced Practicum 2.**

This course is the second in the MSW advanced/final practicum sequence. This course builds on the experiential learning in Advanced Practicum 1, and continues the application of classroom knowledge. The Advanced Practicum 2 focuses on more complex, micro, mezzo, and/or macro learning in diverse community social service agencies and/or facilities for 300 semester clock hours. Departmental approval required to enroll. Prerequisite: Completion of all MSW coursework. Co-requisite: SOWK 5678 unless enrolled in part-time student status

**6 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Sociology (SOCI)

**SOCI 1310. Introduction to Sociology.**

A survey of the basic concepts in sociology including social organization, culture, socialization, groups, and human population leading to the development of a sociological perspective of human behavior. SOCI 1310 and SOCI 3300 may not both be counted for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Soc & Behav Sciences Core 080

**Grade Mode:** Standard Letter

**TCCN:** SOCI 1301

**SOCI 2320. Social Problems.**

This course examines community problems, significant social issues, and disorganization in major social institutions in contemporary American society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** SOCI 1306

**SOCI 3300. Principles of Sociology.**

Survey of the discipline of sociology, including socialization, social institutions, collective behavior, urban and community studies, demography, race relations, culture, and personality. Emphasis on basic concepts and the behavioral science approach to the study of human groups. SOCI 1310 and SOCI 3300 may not both be counted for credit. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 3307. Statistics for the Behavioral Sciences.**

The application of descriptive and inferential statistics of behavioral science data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3317. Popular Culture and Society.**

The content of popular culture, including movies, television, genre novels, popular music, fads and fashion, sports, contemporary folklore, festivals and celebrations, clothing and body decoration, and related cultural material, is examined and analyzed for social significance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3318. Applied Data Analysis.**

This course introduces the student to some of the uses of various existing statistical software packages including proper application, limitations, and interpretations of results. Prerequisites: Three hours of statistics or departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3319. Social Psychology.**

The basic course in social psychology; the nature of the individual in society; the process of socialization; the human personality; personality and social adjustment; and social interaction

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3320. Population Dynamics.**

A study of the composition of the world's population, focusing on growth, problems, politics, and controls. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3321. Suicide, Society, and Human Experience.**

This course will offer a systematic approach to understanding the human encounter with suicide. Issues of theoretical concern are addressed. The course draws upon current and classic sociological research

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3324. Social Stratification.**

The study of inequality as it relates to occupational, educational, religious, political, and other social activities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3325. Social Deviance.**

Theoretical and descriptive analysis of the major types of deviant behavior

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3327. Multicultural Relations.**

The nature and the problems inherent in racial and other minority groups, with special reference to the American scene

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3328. Complex Organizations.**

The study and analysis of complex organizations, bureaucracies, and professions and their influence on individuals and society and its institutions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3329. Life Course Sociology.**

This course examines major sociological approaches to the study of the human life course. Theoretical approaches reviewed include age stratification, the life course perspective, and constructivist and critical approaches to the life course

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SOCI 3330. Globalization and Development.**

This course covers the sociology of globalization and development. Students will learn about theories of globalization; the effects of globalization on cultural, economic and political life; and factors at different levels of analysis affecting socioeconomic development, security, human rights, and democracy around the world

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3333. The Sociology of Popular Music.**

This course explores the dynamic and interactive relationships between music, culture, and society. Popular American music - from blues, gospel, ragtime, jazz, country, and swing to rock, disco, punk, alternative, and rap - will be analyzed as reflections of culture, as society's "voice," and as a powerful instrument of socialization and social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3337. The Family.**

A comparative study of the family in various cultures, both historical and contemporary, with attention to the family in terms of social organization, social change, and social disorganization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3338. Family Problems.**

This course applies sociological knowledge to common problems encountered in families: spouse and child abuse, elder abuse, catastrophic illness, suicide, unemployment, poverty, teen pregnancy, aging and gender issues. Worldwide traditions and norms affecting the institution of the family are also reviewed. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3340. Sociology of Sport and Leisure.**

The theories and research in leisure and popular culture will serve as the broad framework. An emphasis will be placed on the sub-area of sport sociology, including such topics as sport and aggression, competition, children, women, minorities, professionalism, and others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3343. Criminology.**

The various theories of crime, the cause of crime, areas of crime, treatment of criminals through the courts, punishment, reform, education, probation, and parole, and means of crime prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3344. The Sociology of Law.**

This course introduces students to the function of law in human societies. Theories relevant to the study of law as a mechanism of social control and social change will be discussed. Law as a social institution, the training of lawyer, and their socialization into the role of lawyer will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3347. Juvenile Delinquency.**

Delinquency in modern society, basic factors and conditions of juvenile delinquency, and the problem of delinquency control

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3348. Social Control.**

An examination of the creation and maintenance of order in society, including socialization and institutions which respond to disorder.

Included areas are education, religion, law, welfare, and medicine. Focus on law as both a mechanism of control and the basis for control in other institutions in industrial society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3349. Drugs and Society.**

A sociological examination of the social context of drug abuse with emphasis on the social factors, processes, and institutions that impact drug abuse. Applications of sociological theories and research methods will be studied

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3350. Men, Women, and Societies.**

This course examines the relations between male and female roles throughout the world, including the United States, Europe, and third world countries. Special attention is given to changes in these roles and the consequences of such changes for societies, including familial, marital, and sexual relationships. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 3353. Urban Society.**

A study of urbanization as a social phenomenon with attention to traditional sociological studies of the community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3358. Work and Society.**

This course will explore sociological studies of work and occupations, including the structure of work, economic changes, and concerns of workers such as earnings, promotions, and unemployment. It is divided into three main topics: the social organization of work, current work trends, and inequalities at work

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3363. Medical Sociology: The Sociology of Health and Illness Behavior.**

An examination of the social determinants and consequences of human health, morbidity, and mortality, including considerations of health institutions, organizations, professionals, and clients. Social epidemiology of human diseases and mortality and changing relationships of acute and chronic diseases are stressed. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter



**SOCI 3365. Society and Environment.**

This course addresses issues emerging from the reciprocal relationship between society and its environment. The impacts of social and economic organization, social class, and government policies on the physical and social milieu will be examined in order to produce a better understanding of social and environmental interactions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3366. Folkways and Folklore: An Introduction.**

A study of the folkways of the cultures of Texas through selected examples of traditional beliefs, customs, folktales, songs, arts, games, artifacts, and techniques for the collection and preservation of folk materials. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 3370. Industrial Sociology.**

The social setting and formal organization of work; individual and group adaptation in industrial organization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3372. Food and Society.**

This course surveys the sociological study of food. Students will examine how people in societies socially construct "food"; how people obtain food and the implications of this process for our health, economy, and environment; and how food relates to issues of race-ethnicity, social class, and gender

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3375J. Sociology of Consumption.**

Consumption is an integral part of social life in the United States, shaping how we see ourselves and others. While consumption can enhance consumers' lives, it is linked to a host of social and environmental problems. This course critically examines such problems and explores alternatives to the way of life that is consumerism

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375K. Social Movements.**

This course examines social movements, repeated display of collective action outside sanctioned political channels to bring about social change. Different theoretical approaches to social movements will be reviewed to determine how movements organize, attract members, utilize resources, ideologically frame their issues, and engage in nonconventional tactics to influence public policy

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375L. Mind and Society.**

This course provides an overview of mental health and illness with an emphasis on how social environments and structures influence mental well-being. We will explore the causes and consequences of mental health disorders. We will also examine policies and programs aimed at improving mental health in society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3375M. Latinos and Aging.**

This course offers an understanding of the growing Latino aging population in American society, highlighting issues related to their social, familial, economic, physical, and mental well-being. This course will also cover social programs, health and human service needs, and social policies affecting Latino elders

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SOCI 3383. Aging and Society.**

This course is an introduction to the sociology of aging and social gerontology. It employs a multicultural perspective to examine diversity in the aging process as influenced by societal forces

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3384. The Sociology of Death and Dying.**

A study of the sociological and social psychological perspectives on death and dying in contemporary societies with particular emphasis on the meanings of death, on dying as a social process, and on death in the context of both social organization and the life cycle

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3390. Technology and Society.**

The subject of this course is the relationship between technologies and social institutions. Topics covered may include but are not limited to theories of sociotechnical change, diffusion, social constructivism, modernity and rationalism, and case studies of transformative technologies such as the clock, the car, and the birth control pill

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 3395. Sociology of Sexuality.**

Sexuality is explored from a social constructionist perspective, in contrast to essentialist and biological determinist perspectives dominating the Western understanding of sexual roles and behavior. Sexual identity, desire, behavior, response, and health are viewed as socially constructed, largely in response to concerns about societal order

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 4306. Sociological Theory.**

This course will examine classical sociological theories and the contemporary theories that follow from them. The major approaches covered are functionalism, conflict theory, symbolic interaction, and phenomenology. Prerequisites: twelve hours of Sociology or departmental approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4308. Quantitative Research Methods.**

Basic issues in social research are introduced, while emphasizing design and analysis of quantitative research studies. Research exercises culminate in a major research paper analyzing secondary data from The General Social Survey. Critique of published research articles is also required. Prerequisites: SOCI 3307 and SOCI 3318. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4309. Qualitative Research Methods.**

This course examines issues in the sociological research process with an emphasis on qualitative methods. Students will design, propose, and submit a qualitative study based on an extensive review of the sociological literature. Prerequisites: twelve hours of Sociology, or departmental permission. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 4332. The Sociology of Education.**

An examination of education as a formal institution and as a social system. Emphasis is placed upon the nature and functions of education organization in modern societies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 4360. Directed Study.**

(By arrangement) A course of independent study open to superior students by permission of the professor and approval of the Chair of the department. May be repeated with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 4690. Internship in Applied Sociology.**

This course is a supervised work experience related to students' career interests. Requirements include seminars and a 300-hour internship for 15 weeks during long semesters or 10 weeks in the summer. This course is limited to BS majors who meet all prerequisites and can be taken for credit only once

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SOCI 5105. Practicum in Teaching Sociology.**

An introduction to key concepts and practices in the teaching of college course in Sociology. Provides regular in-service training and planned periodic evaluations of instructional responsibilities. Required for first-year teaching and instructional assistants in the Sociology Department. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**SOCI 5110. Proseminar in Sociology.**

This course will orient new graduate students to the department and the profession. Topics include presentations at professional meetings, academic writing and publishing, and putting together curriculum vitae

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5300. Foundation Studies in Sociology.**

This course provides prerequisite knowledge required for success in graduate-level coursework in Sociology. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Sociology

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SOCI 5306. Sociological Theory Seminar.**

This graduate theory course examines the role of social theory in the historical and contemporary quest for knowledge and understanding of society. The first half of the course emphasizes the European Classics.

The second half of the course is devoted to contemporary theory.

Emphasis throughout will be on using theory to better understand current events and everyday life experiences

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5307. Advanced Statistics for the Social Sciences.**

Application of advanced statistical theory and methods to the analysis of social data. Prerequisites: Sociology 3307 or equivalent with grade of "B" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5308. Seminar in Research Methods.**

The application of research methods to social science with emphasis on direct, practical experience in research. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5309. Seminar in Qualitative Research Methods.**

This course examines qualitative methods in Sociology. Topics include examples of classical and modern qualitative research, and issues related to qualitative research. Students critique qualitative studies and conduct and defend a qualitative project. Departmental approval needed for non-majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5310. Teaching Sociology.**

Objectives, methods, and materials of instruction in the sociology curriculum. Relation of sociology to other disciplines

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5316. Seminar in Deviation and Social Problems.**

A systematic analysis of contemporary social problems and various types of social deviation. Emphasis is on the socialization process as it relates to social problems and human deviation. The sociological explanation of underlying factors will be stressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5318. Seminar in Advanced Data Applications.**

This course will cover the application of various statistical techniques, such as chi-square, correlation, and regression while introducing statistical analysis to students using software such as SPSS and STATA. This course will use epidemiological data for application purposes.  
Prerequisite: SOCI 5307

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5319. Seminar in Social Psychology.**

A critical appraisal of the major theories and theorists found in Social Psychology with emphasis on their application to contemporary social and psychological issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5320. Seminar in Demography.**

A seminar in the study of population with emphasis on sources of demographic data, techniques of demographic analysis, and population composition and forecasts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5322. Impact Analysis Research.**

This course is designed to introduce students to the assessment of organizational impact. It addresses both the historical development and social functions of evaluation, as well as practical application of assessment research. Emphasis will be on appropriate research design, implementing the design, and analysis of data

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5323. Grant Writing for the Social Sciences.**

This course offers an applied approach to developing grant-writing skills for the social scientist. It will cover all aspects of proposal development including idea generation, funding source identification, project description, project plan, project management, evaluation methods, and budget preparation strategies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5337. Seminar in the Family.**

An analysis of selected topics with respect to contemporary family structure and processes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5343. Seminar in Criminology.**

An analysis of theories and research related to the crime problem with particular emphasis on the United States. Emphasis will include a study of the role of punishment, corrections, and the reform of offenders.

Special consideration will be given to influential social conditions that play a part in crime causation and prevention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5347. Seminar in Juvenile Delinquency.**

This seminar will examine juvenile delinquency from a sociological perspective. Many topics, including an historical examination of delinquency, theories of delinquency, the social context of delinquency, and social policy issues involving the juvenile justice system and youth-related social problems will be explored

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5350. Seminar on the Sociology of Gender.**

This course is a graduate level seminar on the study of gender in sociology with a focus on issues of race, ethnicity, social class, and sexuality. We will examine the major contemporary scholarly debates about gender and explore how gender issues are embedded in different institutions and organizations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5351. Introduction to Dementia Studies.**

This course is an introduction to the social-scientific study of the causes and consequences of dementia, as well as to issues related to the care of persons with dementia

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5352. Dementia and Caregiving.**

This course for the Dementia and Aging Studies degree covers current research on policy and support for caregivers of persons with dementia, with an emphasis on the applied sociological focus of caregiver training and education. The course also addresses broader public sociology issues of caregiving and healthcare

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5353. Seminar in the Community.**

A study of contemporary urban society with emphasis on understanding the social structure as a prerequisite to planning and problem solving at the community level

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5354. Theoretical Perspectives in Aging and Dementia.**

This course discusses theories of aging from biological, psychological, and social science perspectives. The course also demonstrates how these theories can be applied to analyzing various aging issues, particularly the social care of persons with Alzheimer's disease and other dementias

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5355. The Social Psychology of Dementia.**

This course analyzes the social construction of dementia and salient social psychological theories, concepts, and research in dementia studies. It investigates the social psychology of dementia in relation to mind, identity, stereotypes, prejudice, attributions, socialization, emotions, social interaction and the impact of institutions on the self

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5356. End of Life Care.**

This course focuses on issues of dying and death. Topics covered include symptom management, palliative care, hospice, pain control, life-sustaining treatment and spiritual, legal and ethical issues related to dying and death. Also covered will be different religious views on euthanasia, dying, death, and funerals

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5357. Gender and Aging in Society.**

This course is a seminar on the study of gender and aging. This seminar will examine issues of aging identities, the aging body, sexuality, health and medicine, and caregiving among older adults. This course emphasizes the aging experience in our culture as a fundamentally gendered phenomenon

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5358. Seminar in the Sociology of Work and Occupations.**

This course will explore the organization, experience, and meaning of work in modern societies. Students will analyze the context and structure of different industries and occupations, how and why inequalities in the workplace occur, the balance between work and family, and the effects of globalization

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5359. Seminar in Drugs and Society.**

A sociological examination of the use of legal and illegal drugs in society, with emphasis on topics such as the "war on drugs," the pharmaceutical industry, and drugs as technologies of medicalization, as well as incentives to social change

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5361. Aging and Dementia: Racial and Ethnic Minorities.**

This course provides an analysis of how race and ethnicity affect aging and dementia, with particular emphasis on the United States. The course examines health and quality of life of racial and ethnic minorities in later life, social factors that influence these differences, and means of intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5362. Rural Aging and Dementia.**

This graduate course examines aging and dementia issues in rural America. Demographic trends, cultural and economic changes, and intervention strategies will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5363. Seminar in Medical Sociology.**

A seminar on selected topics of human health and health care organizations. Topics to be stressed include: social causes and consequences of morbidity and mortality, professionalization and socialization of health care practitioners, organization of health institutions, and demographic changes in health problems and needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5365. Seminar in Political Sociology.**

This course applies sociological theory and research to explore the exercise of power in its social context. Particular topics may include but are not limited to civil society, power outside of government, the relationship of the state to other social institutions, and the nature of elites

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5367. Seminar in Sustainable Cities.**

This course analyzes the complex relationship between urbanization and environmental change from a sociological perspective. Overarching themes include sustainability and environmental justice

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5368. Seminar in Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing upon social and environmental interactions, including the interactions of social organization, inequality, and policy, provides a comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5370. Seminar in Multi-Cultural Relations.**

Examines the dynamics of dominant subordinate social groups. Focuses on racial, ethnic, and class differences. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SOCI 5371. Directed Study.**

Course of independent study open to individual students only at the invitation of the faculty member with the approval of the department chair and the graduate advisor. Repeatable for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5380. Sociological Essay.**

Directed study of a specific sociological topic requiring the student to apply skills and knowledge gained in course work. For those students electing to complete a thesis the essay will constitute a thesis research proposal

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5383. Seminar on Aging.**

This course provides graduate students with an opportunity to examine national and global issues involved with the aging process and population aging from a social scientific and multicultural perspective

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SOCI 5388B. Social Inequality: Race, Class, and Gender in the United States.**

This course will investigate the topic of social inequality. The intersections of class, race and gender as they produce inequality will be explored, along with theoretical perspectives and empirical evidence informing the study of social inequality

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter



**SOCI 5388D. How Society Works.**

This course examines how societies are created and maintained. Emphasis is on the functional prerequisites and the common social patterns that emerge in response to meeting the functional prerequisites  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388F. Seminar in Poverty.**

This course is a graduate seminar on the sociological study of US poverty and social mobility. We will examine poverty measurement and trends, poverty-related social policies, theories for explaining poverty and mobility, and the intersection of poverty and social mobility with issues of gender, race, family structure, and place  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388G. Seminar in Food and Society.**

This graduate course focuses on the sociological study of food. It examines the current food system and its interactions with macro-level social institutions, as well as individual identity and well-being  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics  
**Grade Mode:** Standard Letter

**SOCI 5388H. Advanced Statistical Analysis II.**

The focus of this course is advanced data analysis. This course will cover topics such as regression, limited dependent variables analysis, and time series analysis. A secondary aim is to demonstrate data analyses using popular software packages. Prerequisite: SOCI 5307 with a grade of "B" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**SOCI 5388I. Clinical Sociology: Counseling the Elderly.**

This course takes a clinical sociology perspective in studying the issues of the aged and persons with dementia. The approach is humanistic and multidisciplinary, seeking to improve the quality of older persons' lives by assessing situations and reducing problems using analysis and intervention

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics  
**Grade Mode:** Standard Letter

**SOCI 5390. Seminar in Globalization and Development.**

This seminar explores issues related to socioeconomic development and change, particularly in the "Global south." The course will focus on factors affecting development and underdevelopment around the world  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5395. Global Insecurity.**

This graduate seminar covers global, socially constructed risks perceived as threats to sustainable development. Topics include theories of globalization and insecurity; an assessment of threats to democracy and human rights, the environment, food security, public health and safety; as well as local, national and international responses to these threats

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SOCI 5398A. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5398B. Applied Research Practicum.**

Directed impact analysis project in a government agency, business, or non-profit organization requiring the student to apply skills and demonstrate knowledge gained in course work. The project topic will be determined jointly by the faculty supervisor, the student, and the research site. Departmental approval required. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Sociology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SOCI 7368. Advanced Environmental Sociology.**

This course situates societies within their ecological context and vice versa. Focusing on social and environmental interactions, including the interactions of social organization, inequality, and policy, this course provides a more comprehensive understanding of the physical and social milieu

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

## Spanish (SPAN)



**SPAN 1410. Beginning Spanish I.**

Introduction to listening, speaking, reading, and writing skills within a Spanish cultural framework. Students who take SPAN 1410 toward degree requirements must also complete SPAN 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 1411

**SPAN 1420. Beginning Spanish II.**

Continued practice in listening, speaking, reading, and writing skills within a Spanish cultural framework. Prerequisite: a grade of "C" or higher in SPAN 1410. Students who take SPAN 1410 toward degree requirements must also complete SPAN 1420. (MULT)

**4 Credit Hours. 4 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 1412

**SPAN 2310. Intermediate Spanish I.**

Continued development and review of all language skills within a Spanish framework. Prerequisite: a grade of "C" or higher in SPAN 1420. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 2311

**SPAN 2320. Intermediate Spanish II.**

More advanced practice in all language skills with greater emphasis on reading within a Spanish cultural framework. Prerequisite: a grade of "C" or higher in SPAN 2310. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**TCCN:** SPAN 2312

**SPAN 3301. Literatures of Spain I.**

Students will study significant literary texts of the Iberian Peninsula from the Muslim conquest in 711 A.D. through 1700. The course will also consider the literature's historical, religious, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3302. Literatures of Spain II.**

Students will study significant literary texts of the Iberian Peninsula from the Enlightenment through the twenty-first century. The course will also consider the literature's historical, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3305. Latin American Literatures I.**

Students will study literary texts in Latin American from the period before the Conquest through the Colonial and Independence periods. The course will also consider the literature's historical, religious, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3306. Latin American Literatures II.**

Students will study literary texts of Latin American from Modernismo to the twenty-first century. The course will also consider the literature's historical, social, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3308. Advanced Composition.**

A course designed to improve writing skills in Spanish through the reading of texts in Spanish. Prerequisite: a grade of "C" or higher in SPAN 2320. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3309. Introduction to Hispanic Literature and Literary Analysis.**

This course focuses on writing skills, literary analysis, and the reading of selected works from Spanish, Latin American and Hispanic literature. Prerequisite: a grade of "C" or higher in SPAN 2320. Corequisite: SPAN 3308 or equivalent. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3310. Spanish Phonetics and Phonemics.**

Articulatory phonetics and sound discrimination and production; phonemic and allophonic variants; geographical and social distribution. Prerequisite: a grade of "C" or higher in SPAN 3308. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3311. Business Spanish I.**

This course focuses on the use of written and oral Spanish in global business contexts, as well as exploring economic, demographic, and cultural factors that influence commercial interactions in the Hispanic world. Topics include business management, banking, and human resources. Prerequisites: SPAN 3308 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3312. Business Spanish II.**

This course focuses on the use of written and oral Spanish in global business contexts, as well as exploring economic, demographic, and cultural factors that influence commercial interactions in the Hispanic world. Topics include marketing, financing, and imports/exports. Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 3340. Advanced Spanish Grammar and Stylistics.**

This course places major emphasis on syntax, usage, and grammatical nomenclature. Prerequisite: a grade of "C" or higher in SPAN 3308. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3370. Spanish Civilization.**

Students will study the civilizations and cultures of Spain. The course provides a background for understanding Spanish society. Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 3371. Latin American Civilization.**

Students will study the cultures of Latin America and the Hispanic U.S. The course provides a background of the history and civilization of both groups. Prerequisite: SPAN 3308 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4302. The Spanish Novel.**

Students will study selected novels of Spain from the 16th through the 21st century. The course will also consider the literature's historical, religious, and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4311. Historical Aspects of Hispanic Linguistics.**

Historical Aspects of Hispanic Linguistics. (3-0) Course designed to develop knowledge and skills required for analysis and discussion of structural and external aspects of the history of the Spanish language with special focus on word formation and social aspects of language variation. The course provides an overview of morphology, sociolinguistics, and historical linguistics. Prerequisite: A grade of "C" or higher in SPAN 3308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 4312. Contemporary Aspects of Hispanic Linguistics.**

This course is designed to develop knowledge and skills required for analysis and discussion of the structural and social aspects of the Spanish language. The course provides an overview of semantics, syntax, pragmatics, dialectology, and language acquisition in Spanish. Prerequisite: SPAN 3308 with a grade of "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 4330. The Latin American Novel.**

Students will study selected novels from Latin America. The course will also consider the literature's historical and political contexts. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4350. Hispanic Film.**

Students will study Hispanic artistic, cultural, and historical issues through film and selected readings. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4361. Hispanic Poetry.**

Students will read and analyze selected poems from Latin America and Spain. The course will consider the cultural and historical contexts of the works. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4362. Hispanic Drama.**

Students will read and analyze selected plays from Latin America and Spain. The course will also consider the cultural context of the works. Prerequisite: SPAN 3309 with a grade of "C" or higher. (MULT) (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4370. Hispanic Literature of the Southwest.**

Students will study the Hispanic literature of the Southwest in order to have a better understanding of the cultural diversity of the region. Prerequisite: SPAN 3309 a grade of "C" or higher. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380A. Hispanic Nobel Prizes in Literature.**

Prerequisite: a grade of "C" or higher in SPAN 3309. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380D. Gabriel Garcia Marquez.**

A study of selected works of Nobel Prize author Gabriel Garcia Marquez, focusing on literature, history, politics, and popular culture of Latin America. Prerequisite: a grade of "C" or higher in SPAN 3309. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380E. Translation Practice and Theory.**

An introduction to Spanish translation at the upper division. The object of the course is to improve reading comprehension – a fundamental skill for translators-, language proficiency, and cultural and historical knowledge of the target language. Prerequisite: a grade of "C" or higher in SPAN 3308

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 4380F. Mexican Literature.**

This course focuses on the most representative works of Mexican Literature produced since Mexican Independence in the early 19th century. Course objectives include a better understanding of major literary trends and the cultural development of Mexican society since its beginning as an independent republic. Prerequisite: Grade of "C" or higher in SPAN 3308. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380G. Women, Minorities and Marginal Groups in Medieval Spanish Literature.**

This course will present some of the principal literary works which portray women, religious minorities and marginal groups in medieval Spain. Special focus will be given on deconstructing historical myths and stereotypes based on behavioral, religious and sexual identity as reflected by the authors and their selected works. Prerequisite: SPAN 3308 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380H. Nature and Nation in Latin American Literature.**

Students will study the interaction of nature and nation in Latin American literature after independence by taking into account both Western and indigenous approaches to nature. Students will read a selection of literary works that reinforce and/or contest notions of nature, nation and cultural identity. Prerequisite: SPAN 3309 with a grade of "C" or higher. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics|Writing Intensive

**Grade Mode:** Standard Letter

**SPAN 4380I. Spanish and Media.**

This course provides an overview of mass communication in Spanish-speaking regions of the world. Students will explore the use of radio, television, newspapers, and the internet, as practiced in various Hispanic cultural contexts. Prerequisite: SPAN 3308 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 4390. Studies in Spanish Culture, Language, or Literature.**

The course is generally available only to graduating seniors who have completed several advanced courses or graduate students with special needs. Repeatable for credit with different emphasis. Prerequisite: a grade of "C" or higher in Spanish 3308, approval by the Chair of the Department of Modern Languages and the Spanish Division Head. Applications must be submitted prior to the registration period each semester. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5100. Practicum in Teaching Spanish.**

Required as a condition of employment for graduate teaching and instructional assistants in their initial semester of employment. The course provides regular in-service and planned periodic evaluations of instructional responsibilities. This course does not earn graduate degree credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**SPAN 5199B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5299B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5300. Foundation Studies in Spanish.**

Course designed to develop knowledge and skills required for success in graduate-level studies in Spanish. Course content varies depending on academic preparation. This course does not earn graduate credit.

Repeatable up to 12 hours with different emphasis. Prerequisite:

Approval of graduate advisor in Spanish

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from Graduate GPA|Leveling

**Grade Mode:** Leveling/Assistantships

**SPAN 5306. STU SPN PEN LIT.**

Selected works of Spanish literature which reflect lasting cultural values.

a) Medieval and Golden Age: realism and idealism; b) Modern Spanish thought: the individual in Spanish history and society

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 5307. STU SPAN AMER LIT.**

Selected works of Spanish literature which reflect lasting cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 5308. STU HISPAN CULTURE.**

Selected works of Spanish literature which reflect lasting cultural values

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 5310A. Voyages and Encounters in Spanish American Literature.**

Thorough analysis of historical and fictional voyages. The course will address how encounters with indigenous, ethnic minority, and foreign cultures have influenced the development of individual, national and regional identities in Spanish America. Readings will include accounts of the Conquest, colonial texts, and literature for the 19th and 20th centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310B. Don Quijote.**

A close reading of the classic Spanish novel Don Quijote by Miguel de Cervantes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310C. Poetry of Spain and Spanish America.**

A focus on the genre of poetry through a close reading of a selection of classical and contemporary poets from Spain and Spanish America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310D. Hispanic Literature: Gabriel García Márquez.**

A study of selected works of Nobel Prize author Gabriel García Márquez, focusing on literature, history, politics, and popular culture of Latin America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310E. Hispanic Literature: Hispanic Film.**

A study of Hispanic cultural issues through film and additional readings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Topics

**Grade Mode:** Standard Letter

**SPAN 5310F. Contemporary Mexican Narratives.**

This course focuses on contemporary Mexican narratives. Students will study Mexico's literary trends such as La nueva narrativa, the Crack Generation, women's literature, and the new historic and testimonial fictions, in order to better understand the cultural process of the Mexico's society in the late 20th and early 21st centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SPAN 5311. Studies in Medieval and Golden Age Spanish Peninsular Literature.**

Selections of fiction, poetry, theatre, essay, and film of medieval and Golden Age Spain. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5312. Studies in Spanish Peninsular Literature from the Eighteenth Century to the Present.**

Selections of fiction, poetry, theatre, essay, and film of Spain from the eighteenth century to the present. May be repeated once with different emphasis of additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5313. Studies in South American Literatures.**

Selections of fiction, poetry, theatre, essay, and film of South America. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5314. Studies in Central American and Caribbean Literatures.**

Selections of fiction, poetry, theatre, essay, and film of Central America and the Caribbean. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5315. Studies in Mexican and Mexican-American Literatures.**

Selections of Mexican and Mexican-American fiction, poetry, theatre, essay, and film. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5316. Studies in Spanish Peninsular Culture.**

Culture, history, and society in literature, film, art, music, folklore, and mass media of Spain. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5317. Studies in the Cultures of the Americas.**

Culture, history, and society in literature, film, art, music, folklore, and mass media of the Americas. May be repeated once with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPAN 5318. Advanced Composition and Grammar.**

The study of grammar and writing through composition and analysis of ideas and texts. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5319. Synchronic Spanish Linguistics.**

In this course students learn about Spanish dialectology, phonology, regional variation, migration impacts on language variety, issues of language maintenance and death, syntax, and current theories of language contact and koineization (i.e., the formation of new dialects). May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5320. Diachronic Spanish Linguistics.**

Evaluation of aspects of history of the Spanish language including pronunciation, word formation, sentence structure, dialects, and relations to other languages. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter



**SPAN 5321. Spanish Applied Linguistics.**

This course provides an overview of the major areas of applied linguistic research including: current theories in second language acquisition, teaching methodologies, bilingualism, performance, syntax, and computer assisted learning. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5322. Spanish for the Professions.**

Topics vary and include the study of Spanish for business, law, medicine, criminal justice, and/or the social sciences. May be repeated once with different emphasis for additional credit. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5390. Studies in Spanish Culture, Language, or Literature.**

Independent study under supervision of a graduate faculty member in Spanish, with in-depth readings and research on a specific topic. May be repeated once with different emphasis for additional credit. Prerequisite: Approval by head of the Spanish Division and department chair. Application must be submitted prior to semester registration period. (MULT)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Multicultural Content

**Grade Mode:** Standard Letter

**SPAN 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until the student has completed the thesis in Spanish 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5399B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5599B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5600. Internship and Foreign Study.**

This course consists of an internship of at least four weeks duration in a foreign Spanish-speaking country. Interns will work with organizations that use Spanish in a professional context. Internships may be complemented by lectures, observations, interviews, or other activities relevant to the student's academic and professional interests.

Prerequisites: Completion of 18 credit hours required for the Master of Arts with a major in Spanish. Graduate advisor approval required

**6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SPAN 5999B. Thesis.**

This course represents a student's continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Special Education (SPED)

**SPED 2360. Survey of Exceptionalities.**

Course provides for the examination of types, characteristics, and causes of various exceptionalities; identifies federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community. Prerequisite:

Sophomore classification

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 3338. Educating Students with Emotional/Behavioral Disorders.**

This course addresses topics associated with teaching students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues. Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA. Co-requisites: SPED 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 3390. Assessing Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude; academic achievement; social, emotional, and motor development; and includes implications of these results for instruction or remediation. Prerequisites: Admission to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on an independent study basis with faculty member and available only with permission of department. Prerequisites: Admission to the Teacher Preparation Program; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**SPED 4340. Evidence-Based Instructional Practices for Students with Mild or Moderate Disabilities.**

This course delineates evidence-based instructional theories and practices for students with mild or moderate disabilities. The course targets curricular and instructional design for students who need specialized methods for successful learning. Topics include curriculum-based measurement and progress monitoring, specialized evidence-based strategies matched to presenting characteristics, and evidence-based inclusion models. Prerequisites: 2.75 Texas State GPA, SPED 2360. Prerequisite/corequisite: SPED 3390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**SPED 4344. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented. Prerequisite: 2.75 overall GPA. Junior classification required. Must be admitted to the Teacher Preparation Program or Minor in Special Education

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4345. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas. Prerequisites: Admission to the Teacher Preparation Program and Minor in Special Education; SPED 2360; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4374. Classroom and Behavior Management Strategies for Students with Disabilities.**

Effective strategies for classroom management. Topics include: common management problems, evaluation of classroom management approaches, strategies for preventing behavior problems, teaching new behaviors, increasing desired group and individual behaviors, and positive strategies for reducing inappropriate group and individual behaviors. Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education; 2.75 Overall GPA

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4381. Educating Students with Intellectual and Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques pertaining to individuals with intellectual and developmental disabilities. Techniques include specialized assessment and instructional strategies, functional curriculum development, transition planning, positive behavior supports, and assistive technologies. Prerequisites: Admittance to the Teacher Preparation Program or Minor in Special Education, 2.75 Overall GPA, SPED 2360

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 4389. Special Education Practicum.**

This course provides opportunities for students to design and apply assessment, planning, and instructional strategies. Students may be required to instruct in one or more content areas including academic, life, social, prevocational or vocational and/or communication skills. Prerequisites: Admittance to the Teacher Preparation Program; SPED 2360, SPED 3338 or SPED 4381, SPED 4345, SPED 4374; 2.75 Overall GPA

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5310. Selected Topics in Special Education.**

In-depth study of selected topics of current interest in special education. Work done on independent study basis with faculty member and available only with permission of department. May be repeated for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5311. Teaching Language Arts to Students with Disabilities.**

Course provides effective, research-based instruction for struggling readers, including basic literacy and adaptations to facilitate students' access to the general education curriculum. Basic literacy content will be presented, including information about phonological awareness, word study and spelling, fluency, comprehension, and writing across content areas

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5313. Education Students with Emotional/Behavioral Disorders.**

Specific strategies and issues associated with effective instruction of students with emotional/behavioral disorders. Content includes an overview of definitions and characteristics, etiological factors, assessment for diagnosis and intervention planning, treatment options, including methods and materials for effective instruction, collaborative interagency services, and current issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5314. Advanced Educational Strategies for Students with Autism.**

This course examines theories and specialized instructional strategies pertaining to the education of children and youth with Autism Spectrum Disorders. Prerequisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5324. Ethics, Trends & Issues in Ed & Treatment of Students with Autism & Other Developmental Disabilities.**

This course prepares special education teachers, behavior analysts, and other professionals associated with the education and treatment of students with autism for the ethical issues encountered in schools, homes, and clinics. This course emphasizes the ethical guidelines for responsible conduct established by the Behavior Analyst Certification Board. Restricted to Special Education Majors only

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5325. Development Perspectives of the Mildly Disabled.**

In-depth study of language, cognitive, psychosocial, and motor development, from infancy to adulthood, in the mildly disabled. Special emphasis on the relationship between these developmental problems and the learning process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5326. Educating Students with Mild Disabilities.**

Course provides information about modifications for students with mild disabilities. Characteristics of special education categories discussed with primary emphasis on learning disabilities. Role of classroom management and classroom teacher's role with students with mild disabilities addressed. Methods for individualizing instruction under a variety of classroom conditions presented

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5327. Educating Students with Autism and Other Developmental Disabilities.**

This course provides an overview of student characteristics and appropriate instructional techniques for individuals with developmental disabilities. Topics include specialized assessment and evidence-based practices, functional curriculum development, transition planning, medical and physical management, and assistive technologies

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5329. Language Development and Intervention for Special Populations.**

This course covers typical and atypical language development and intervention programming for individuals with significant language delays or disorders. Topics include assessment of language and social communication, individualized program development, and specialized language interventions across settings

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5334. Assessment and Evaluation of Students with Disabilities.**

The course provides information about formal and informal assessment for the identification of cognitive aptitude, academic achievement, social, emotional, and motor development, as well as the implications of these results for instruction and remediation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5340. Principles and Practices of Effective Instruction.**

This course provides study of research-based instructional theory and practices for students with disabilities. Focus is on instructional methods and curriculum for students with disabilities in special education settings. Topics include curricular planning, curriculum-based measurement, evidence-based strategies for facilitating student learning, and unique curricular needs of students with disabilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5354. Advanced Studies in School Discipline, Order, and Safety.**

This course provides advanced study of issues related to school discipline, order, and safety. Topics include historical perspectives, studies of school discipline and safety, effects of school disorder, policies and practices in school discipline, disproportionality in school discipline, school-wide positive behavior supports, and trans-disciplinary and comprehensive approaches to school discipline

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5355. Characteristics of Students with Learning Disabilities.**

This course reviews the latest research on learning disabilities in each developmental area. The focus is on identification and eligibility issues. Topics include changing definitions, medical aspects, cognition and language characteristics, personality and social characteristics, generic instructional approaches, technology, and issues in the future of learning disabilities. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5356. Advanced Practices in Learning Disabilities/Inclusion.**

This course reviews research-based instructional strategies for students with learning disabilities, focusing on proven practices and on improving instructional decision-making across content areas and grade levels.

Topics include: understanding learning disabilities, response to intervention, individualized educational plans, differentiating instruction, assessment, collaborative partnerships, and facilitating content-area instruction and study skills. Prerequisite or Co-requisite: SPED 5326 or SPED 5340

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5360. Survey of Exceptionality.**

Course provides for the examination of types, characteristics, and etiologies of various exceptionalities; identification of federal laws as they relate to various populations; and serves as an introduction to the education of exceptional students in the home, school, and community

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5375. Behavior Management: School Application of Applied Behavior Analysis.**

Course topics include planning and utilizing behavioral techniques such as functional assessment/analysis, behavioral recording, differential reinforcement, antecedent manipulation, generalization training, and self-management

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5376. Advanced Intervention Practices for Challenging Behavior.**

This course prepares behavior analysts, school psychologists, teachers, and other professionals responsible for the education and treatment of individuals with developmental disability and/or behavior disorders to use applied behavior analysis to treat severe problem behavior. The focus is on severe behaviors not ameliorated by typical classroom management and intervention. Prerequisite: SPED 5375 with a "C" or better

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5380. Positive Behavior Interventions and Supports in Schools.**

This course covers theory, issues, and applications of Positive Behavior Interventions and Supports (PBIS) in school settings. Topics include history and foundations of PBIS; PBIS assessment and evaluation; and best practices in behavior and academic interventions in PBIS programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5382. Advanced Practices in Educating Students with Emotional/Behavioral Disorders.**

This course covers advanced principles, concepts, and practices related to educating students with Emotional/Behavioral Disorders. Emphasis will be on school-based services, including advanced, evidence-based instructional and behavioral interventions for improving academic, social, and behavioral outcomes. Prerequisites: Prior completion or concurrent enrollment in SPED 5311 or 5340, SPED 5375 and SPED 5313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SPED 5385. Educational Diagnostician Ethics, Standards, and Procedures.**

Course provides information about professional roles, ethics, standards, laws, rules, and regulations pertaining to educational diagnosticians. Procedures for selecting, administering, and interpreting standardized instruments utilized for evaluation of exceptional learners will also be addressed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5386. Advanced Techniques in Applied Behavioral Analysis.**

Course covers advanced principles of Applied Behavior Analysis, including assessment and development of interventions. Topics include foundations and ethics of ABA, the analysis of verbal behavior, functional behavior analysis, single subject design, and program development and evaluation. Prerequisite: SPED 5375

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5387. Single-Subject Research Methods and Designs.**

Single-subject analysis is a primary research methodology in special education and other related human service fields. This course will address uses of this methodology in applied behavior analysis for development of effective classroom instruction and clinical interventions and for evaluation and accountability purposes

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5389. Special Education Practicum.**

Design and implement educational programs for students with disabilities including assessment, planning, instruction, progress reporting, and development of annual goals and objectives. Supervised. Prerequisites: SPED 5311, SPED 5313, SPED 5327, SPED 5334, SPED 5340, SPED 5375. A student may take two of the prerequisites concurrently with SPED 5389

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5390. Educational Diagnostician Practicum.**

Provides opportunities for students to become familiar with the professional responsibilities of education diagnosticians. Emphasis placed on participation in the full individual evaluation process for identifying problems, developing interventions, and participating in school-based teams. Prerequisites: SPED 5334, SPED 5375, EDP 5376

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**SPED 5391. Field-Based Practicum in Autism Spectrum Disorders.**

This course provides intensive field experience working with students with autism in school settings. Skills to be practiced include interventions based on applied behavior analysis, assessment of learning needs, behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisite or Co-requisite: SPED 5327

**3 Credit Hours. 3 Lecture Contact Hours. 10 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SPED 5392. Field Based Practicum in Behavior Disorders/Positive Behavior Supports.**

This course provides intensive field experience working with students with behavior disorders in school settings to include practices based in positive behavior supports, applied behavior analysis, assessment of learning needs and behavior function, application of instructional and behavioral interventions, and evaluation of student progress. Repeatable for credit. Prerequisites: SPED 5313, SPED 5380, SPED 5382, SPED 5375

**3 Credit Hours. 2 Lecture Contact Hours. 8 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Student Affairs in Higher Education (SAHE)

**SAHE 4178. Student Leadership in Higher Education.**

This course provides students with knowledge to strengthen the campus experience through holding student leadership roles. Students will learn skills, principles, and characteristics necessary for responsible and positive leadership as well as the role of student leadership and student engagement in higher education. Repeatable for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

**SAHE 5311. Advising and Facilitating Diverse Student Groups and Organizations.**

Designed for student affairs professionals, this course focuses on effectively advising and facilitating a diverse array of student groups and organizations. Topics include: collaboration, group facilitation, conflict resolution/mediation, supervision, crisis intervention, mentoring, multicultural competence, teamwork, and teambuilding

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 5322. Governance and Legal Issues in Higher Education.**

This course provides for the identification and understanding of the legal issues, which influence institutions of higher education. There is also a focus on how postsecondary institutions are governed by Boards of Regents as well as both state and federal governments

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 5323. Assessment, Strategic Planning, and Evaluation in Student Affairs.**

This course covers the theoretical bases for assessment techniques; research design; strategic planning; developing, managing, and evaluating student affairs programs including information management and computer applications in higher education; and methods of needs analysis applicable to college student populations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**SAHE 5354. Basic Helping Skills.**

This course will assist students with the development of basic communication, crisis assessment, and referral skills, through the use of role playing and modeling. It provides didactic and experiential activities to facilitate the acquisition of skills essential to helping in the student affairs context

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 5388. Internship I - Student Affairs.**

With a focus on bridging theory and practice, Internship I focuses on applying professional and theoretical knowledge to a student affairs internship setting and making meaning of one's internship experience. The course involves in-class meetings and clocked internship hours. Repeatable with departmental approval. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**SAHE 5390. Student Affairs Functions and Professional Orientation.**

This course covers the history of student affairs in higher education; the context in which student affairs exists in higher education; the theories used in student affairs work and its philosophical foundations; and the mission, goals, and programs of selected functions in student affairs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 5392. Student Affairs Capstone: The Application of Principles and Theories to Case Studies.**

Utilizing case study format, students examine the application of Student Affairs theories and principles to significant issues, functions, and problems that student affairs administrators manage in work settings. Topics include ethical decision-making, management and leadership problems, human resource development, governance and legal issues, finance and budgeting, and evaluation and assessment

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 5393. Multicultural Practice and Social Justice in Student Affairs.**

This course focuses on the awareness, knowledge, and skills necessary to be multiculturally competent and socially just student affairs professionals. Additionally, the course focuses on diverse characteristics and needs of contemporary college students

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7178. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7278. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7335. Leadership in Student Affairs.**

This course provides an examination of leadership in student affairs and higher education through the study of leadership and organizational theory. Additionally, the course focuses on student leadership development. Students will be prepared to utilize their knowledge of leadership theories and models to practice leadership and develop leadership in others

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7339. Foundations of Higher Education and Student Affairs Administration.**

This course provides an overview and examination of the historical, philosophical, and organizational foundations of higher education and student affairs. Additionally, there is a focus on institutional programs, services, practices, and resources that support student engagement and success

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7340. College Student Development: Theory and Practice.**

This course seeks to provide in-depth understanding of developmental needs and issues of college and university students, identifies ways to enhance learning by considering developmental and environmental effects, and offers practice in creating learning opportunities that consider developmental needs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**SAHE 7378. Independent Study.**

This course focuses on individual research topics. Students choose a selected area of study and work independently on a specialized project. Repeatable with departmental approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**SAHE 7379A. Gender in the Collegiate Environment.**

This course examines the role of gender in higher education. Designed using feminist theory and a social justice framework, the course includes topics of gender identity development, sexual orientation, gender privilege and oppression, gender disparities in achievement and persistence, femininity, and masculinity

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379B. Higher Education and Student Affairs in Qatar.**

This course focuses on higher education and student affairs in the country of Qatar. Qatari colleges and American higher education branch campuses in Qatar will be examined. Topics include Qatari and Arab history and culture, student affairs services in Qatar, student development and student involvement, and intercultural competence

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**SAHE 7379C. Professional Development in Student Affairs.**

Professional development plays an important role in student affairs. This course will allow students to learn more about professional development, professional associations, and conferences. Additionally, students will attend a professional conference and explore the theme of the conference through readings and meetings with professional association leaders and speakers

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**SAHE 7379D. Research Methods in Student Affairs.**

Understanding research is an important part of higher education administration. This course focuses on research measurement and design procedures for addressing issues in student affairs in higher education. Students will learn quantitative and qualitative methods as well as fundamentals for reviewing, understanding, and applying research literature

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

## Technology (TECH)

**TECH 1311. Engineering Design Graphics.**

This course provides an introduction to the fundamentals of technical drawing and the related graphical tools used to communicate engineering design concepts. The topics include two dimensional graphics, orthographic projections, geometric dimensioning and tolerancing, computer-aided graphics, parametric solid modeling, and introduction to three dimensional graphics

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 1330. Assembly Processes.**

Basic assembly process to include gas, arc, resistance, thermite, induction, and forge welding; weld-ability, weld metallurgy, weld symbology, and weld testing; brazing; soldering; mechanical fastening to include threaded fasteners, rivets, shrink and press fits, seams, staples, crimping, and structural adhesives. Principles of joint design and cost estimation. An overview of electronics assembly processes and automated assembly

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 1363. Manufacturing Processes I.**

The course will provide an overview of the manufacturing processes. Major emphasis is placed on machining theory, setup and tooling. Metal forming and fabrication procedures are introduced. Joining and assembly includes welding, mechanical fastening, adhesive bonding and surface finishing concepts. Laboratory demonstrations and tutorials involve machining, joining and forming techniques

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 1393. Manufacturing Processes II.**

The course involves the fundamentals of casting and molding processes. Emphasis is placed on casting terminology, molding sand, molding processes, pattern making, coremaking and quality control. Ferrous and non-ferrous alloy composition and casting geometry are explored. Plastic and composite forming concepts are included. Microelectronic manufacturing principles and processes are introduced. Prerequisite: TECH 1363

**3 Credit Hours. 2 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 2190. Industrial Internship.**

This course is a supervised experiential learning course in various technical disciplines as appropriate to a student's degree program. This work integrated learning course helps the student link theory with practice. Repeatable for credit. Prerequisites: 45 hours completed with at least 12 having been completed at Texas State and a minimum major GPA of 2.25

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 2310. Introduction to Computer-Aided Design (CAD).**

Principles of 3D modeling are introduced in the preparation of drawings for manufacturing processes. Emphasis includes the parametric solid modeling of machine elements and geometric dimensioning and tolerancing. The laboratory component involves production of engineering drawings and simulations connecting this course to computer-aided engineering. Prerequisite: TECH 1311 or ENGR 1313 or instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 2330. Fundamentals of Material Removal.**

Fundamentals of Material Removal. (3-0) An overview of the micro and macro structure of materials is studied. Assessment of materials with regard to their chemical and mechanical properties and how these properties relate to machining is explored. Machining conditions with regard to feed, speed, surface finish, tooling requirements, horsepower capabilities, time, and cost analysis complete the class. Prerequisite: MATH 1315

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 2344. Power Technology.**

This class deals with understanding the basic laws of thermo-dynamics. It probes efficiency and examines energy-converting devices from the inputs, processes, outputs model. Internal combustion engines, electric motors, hydraulic, pneumatic, and gearing systems, and fuel analysis are reviewed from a practical and theoretical perspective. Prerequisites: MATH 1315 and PHYS 1315 and 1115 or PHYS 1410 or PHYS 1430

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter



**TECH 2351. Statics and Strength of Materials.**

Course covers principles of statics and strength of materials to include forces, equilibrium, friction, centroids, and stress/strain relationships, axial stress and deformation, thermal stress and deformation, stress concentrations, factor of safety, torsional stress, beam stresses and combined stress. Prerequisites: CSM 2342 or ENGR 2300, PHYS 1315 and PHYS 1115 or PHYS 1410 or PHYS 1430, all courses with a grade of C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 2370. Electricity/Electronics Fundamentals.**

Fundamentals of safety, Ohm's Law, series, parallel, and seriesparallel circuits, meters, relays, and basic transistor circuits. 3310 Industrial Design. (3-0) The fundamentals, elements, and principles of design applied in creative ways to industrial design problems emphasizing function, form, and aesthetics. Ergonomics, product life cycles, environmental concerns, and use of elementary statics for stress analysis. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TCCN:** ENGR 2305

**TECH 3322. Development of Technology.**

The role of technology in the development of Western World culture is studied from a technical perspective. Social repercussions resulting from the introduction of foundational technical developments are reviewed. Examples of technical areas examined are agriculture, transportation, manufacturing, engineering, defense, and communications. Readings focus discussions and papers on specific topics and encourage synthesis level understanding. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TECH 3344. Applied Thermofluids.**

Basic concepts, first and second laws of thermodynamics, thermodynamic properties, heat transfer by conduction, convection and radiation, fluid statics and fluid dynamics are studied. Prerequisites: TECH 2344 and PHYS 1430

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3345. Principles of Lean Systems.**

The course provides an in-depth understanding of the lean principles as they apply to manufacturing and service organizations with emphasis on lean tools and concepts such as Value Stream Mapping, 5S, kaizen, waste, takt/cycle time, visual control, six-sigma, mistake proofing, single piece flow, cell design and pull systems. Prerequisite: TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3357. Facilities Planning and Design.**

This project-based course provides students with a practical knowledge of designing efficient facility layout and material handling system. Systematic layout planning (SLP) based on a product and process information is studied in depth. Simulation tools are used for flow analysis. Prerequisites: TECH 2310

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3364. Quality Assurance.**

This course covers the principles of quality management to include basic probability and statistics concepts, control charts for attributes and variables, sampling plans, quality audits and costs. The laboratory component of this class includes exercises that provide exposure to basic metrology and data collection

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 3370. Electronics.**

This course is a study of the characteristics of basic electronic circuits and their component parts. Course content includes the use of electronic test equipment, inductance, capacitance, reactance, impedance, rectification, switching, amplification, and electronic circuitfabrication. Prerequisite: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 3373. Communication Systems.**

This course deals with basic principles of communication systems. Specific topics include analysis of signals and systems, modulation techniques (digital and analog), analysis of transmitters and receivers, networking, and wireless communication systems. Prerequisites: TECH 2370 or EE 2400

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4197. Special Problems.**

The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair. Repeatable for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4330. Foundry & Heat Treatment.**

The technical aspects of foundry and heat treatment of ferrous and non-ferrous metals are reviewed. Students gain proficiency with interpretation of binary phase diagrams, mathematical modeling of gate and runner systems, micro-structural analysis, process cost evaluation, sand testing, investment casting and other technical processes. Technical report writing is an important part of this class. Data collection and data analysis with experiments allow students to develop appropriate techniques for presenting technical data in report format. Prerequisites: TECH 2310, ENGR 2300 and TECH 2351 or MFGE 2332 or Instructor's Approval. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4345. Method Engineering and Ergonomics.**

The course provides an in-depth understanding of the lean principles as they apply to manufacturing and service organizations with emphasis on lean tools and concepts such as Value Stream Mapping, 5S, kaizen, waste, takt/cycle time, visual control, six-sigma, mistake proofing, single piece flow, cell design and pull systems. Prerequisite: TECH 3364

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4362. Manufacturing Process Engineering.**

This course will provide students with fundamentals of manufacturing processes planning and engineering. Major emphasis will be placed on make-buy analysis, tolerance analysis and dimensional control, tool and fixture design, process and material selection, design for manufacturing, design for assembly, and process planning. Prerequisites: TECH 1393 and TECH 2310

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4365. Machine Elements: Dynamics and Design.**

Principles of the design of mechanical components; theories of failure; material selection; design of shafts, gears, cams, fasteners, springs and brakes; dynamics; balancing of machinery and vibration control are studied. Prerequisites: TECH 2310 and TECH 2351

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4367. Polymer Properties and Processing.**

Structure, physical & mechanical properties, design considerations and processing methods for polymer-based materials are presented. Processing methods include: injection molding, blow molding, thermoforming, compression molding, extrusion, filament winding, lay-up methods, vacuum bag molding and poltrusion. Prerequisite: ENGR 2300

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TECH 4372. Electronic Devices and Circuits.**

This course covers transistor configurations, field effect transistors and circuits, voltage regulation, amplifier feedback principles, operational amplifiers and circuitry, and unijunction transistors and applications. Prerequisites: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4373. Control Systems and Instrumentation.**

This course is an introduction to modern control systems and instrumentation. Topics covered include transducers, sensors, actuators, instrumentation, open and closed loop control systems, PID controllers, programmable logic controllers and ladder logic, and computer interface software and hardware. Prerequisites: TECH 2370 or EE 2400

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4374. Digital Systems.**

Solid state digital electronics from basic concepts to current industrial needs in terms of logic gates (all types), number systems counters (all types), registers (all types), sequential control circuits, and shift register generator. Prerequisite: TECH 2370 or PHYS 2425

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4380. Industrial Safety.**

Introduction to the field of industrial safety with emphasis on compliance with Federal and State regulations. Prerequisite: Junior standing. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4383. Driver and Traffic Safety Education I.**

Content, methods, and materials for instruction in the classroom phase of driver education in Texas. Topics include Texas traffic law; Texas Education Agency standards for high school driver education; driver behavior, attitude, and psychomotor skills; and safety in the highway transportation system

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4385. Driver and Traffic Safety Education II.**

Content, methods and materials for instruction in the laboratory phase of driver education in Texas. Topics include in-car instruction, multi-car range, and simulation. During laboratory sessions participants will observe in-car instructors, peer teach in the car, and teach a high school student how to drive. TECH 4383 and 4385 will be taken simultaneously.

Prerequisites: TECH 4383 and a good driving record

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4387. Motorcycle Safety and Rider Education.**

Techniques and methods of teaching beginner rider education. Includes classroom techniques as well as laboratory experience in on-street and off-street riding. Not applicable to the BS in Technology program

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4389A. Advanced Residential Construction.**

Advanced concepts in residential construction are covered including land acquisition, land development, infrastructure, deed restrictions, cash flow, financial forecasting, marketing, scheduling and sustainable building practices. Prerequisite: CSM 2360 with a grade of "C" or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TECH 4389B. Construction Industry Best Practices.**

This course will cover current issues facing the construction industry today including the best practices used to resolve these issues. Several industry leaders will lecture on these contemporary problems facing the industry. Restricted to Junior level Construction Science and Management Majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TECH 4390. Internship.**

Supervised on-the-job professional learning experience in construction, manufacturing, electronics, and other technical areas. This course provides practical work experience in their particular field of interest.

Repeatable for credit. Prerequisites: Consult internship coordinator. (WI)

**3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Dual Enrollment

Permitted|Time Conflicts Permitted|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4392. Micro and Nano Manufacturing.**

This course covers the basic principles of micro and nano manufacturing. Emphasis is placed on the process descriptions, terminology, equipment requirements, and processes for micro and nano systems. Basic physics and process chemistry is combined with control schemes to arrive at overall systems descriptions. Prerequisites: CHEM 1335 or CHEM 1341, and PHYS 1325 or PHYS 1420 or PHYS 2425

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4393. Driver and Traffic Safety Education III.**

Content, procedures, and administration of multi-phase driver education programs. Topics include scheduling, maintenance and operation of laboratory equipment, record keeping, lesson plan development, and driver education for the handicapped. Practicum in classroom and/or simulation instruction. Not applicable to the Bachelor of Science in Technology degree program. Prerequisite: TECH 4383, TECH 4385, and TECH 4393 may be taken simultaneously

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TECH 4394. Microelectronics Manufacturing II.**

This is an intermediate level course in integrated circuit processing. Topics covered include: atomic models for diffusion, oxidation and ion implantation; topics related to thin film processes such as chemical vapor deposition, physical vapor deposition; planarization by chemical-mechanical polishing and rapid thermal processing; and process integration for bipolar and MOS device fabrication. Students will design processes and model them using a simulation tool such as SUPREM

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 4395. Automated Manufacturing Systems I.**

This course primarily deals with automation in industrial systems. In particular, this course focuses on automation and control technologies in manufacturing systems at machine and device levels. Included in its structure are areas such as fundamentals of industrial automation, sensors and actuators, numerical control, robotics, and PLC.

Prerequisites: TECH 1393 and TECH 2310 or TECH 4373

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4396. Automated Manufacturing Systems II.**

This course primarily deals with automation in industrial systems. In particular, this course focuses on automation and control technologies at a system level. This course includes topics such as simulation of manufacturing systems, flexible manufacturing systems, automated quality control, automated identification, and automated material handling. Prerequisites: TECH 4395

**3 Credit Hours. 3 Lecture Contact Hours. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 4397. Special Problems.**

The investigation of a special topic by developing the problem, researching the topic, and presenting the findings as they apply to industry/technology. This course will be applicable to all areas of technology, and must be done only with the approval of the cooperating faculty member and Department Chair. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 4398. Senior Design.**

This course deals with application of technical and non-technical skills and knowledge using a multidisciplinary team-based approach for solving real-world problems related to product and process development. The topics include systematic product development, development of business plans, project management, cost estimation, documentation and presentation, prototyping, fabrication and concurrent engineering. Prerequisites: TECH 4395 or TECH 4372 or EE 3400 or GEO 4313. (WI)

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required|Writing Intensive

**Grade Mode:** Standard Letter

**TECH 4399. Seminar in Technology.**

The topics for this course will vary. The course will involve the identification of the topic, its nomenclature, its processes, tools, equipment or materials, and its application to technology. The topic may apply to either the certification program or technology program or to both. A final report summary or presentation will conclude each seminar. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TECH 5100. Academic Instruction for Technology.**

The course is seminar based and covers topics related to teaching and employment responsibilities. Completion of this course is required as a condition of employment for graduate assistants. This course does not earn graduate credit. Repeatable with different emphasis. Graded on a credit (CR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**TECH 5195. Industrial Internship.**

This course is a supervised experiential learning course in Technology Management. This work integrated learning course helps the student link theory with practice. Repeatable for credit. Prerequisites: 9 hours completed toward the Master of Science in Technology Management degree and the approval of the graduate advisor

**1 Credit Hour. 0 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5305. Fundamentals of Quality Assurance.**

Principles of quality management including probability theory and basic statistics, control charts for attributes and variables, sampling plans, quality audits, and costs. Experiences in basic metrology and data collection for quality control. This course does not count as credit toward a degree

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5307. Fundamentals of Manufacturing Processes.**

Application of metal cutting principles. Includes steel rule dye layout, machine layout, tool life, tool wear, tool geometry and reconditioning, principles of feed rate and speed, material removal rates and power consumption. Machining of steel and castings using various cutting tools. Does not count toward degree credit. Prerequisite TECH 2330

**3 Credit Hours. 1 Lecture Contact Hour. 3 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Credit/No Credit

**TECH 5310. Product Design and Development.**

This course provides an overview of the new product realization process. The focus is on the steps of systematic product design including problem identification, product planning, conceptual design, and embodiment design. Standard CAD tools are employed for product modeling. Prerequisite: TECH 2310 or instructor's approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5311. Computer Aided Engineering.**

Application of computer hardware and software to the design of products and systems; geometric modeling; engineering computational methods; overview of engineering analysis software which may include finite element analysis, manufacturing simulation, solidification modeling, and rapid prototyping. Prerequisites: TECH 5310 and MATH 2471, or equivalents

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TECH 5315. Engineering Economic Analysis.**

This course deals with economic analytical techniques used in engineering decision making. Topics include time value of money, comparing alternatives, depreciation, replacement, and income tax considerations. Prerequisite: MATH 1315 or MATH 1319 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5364. Robust Product and Process Design.**

Provides the student with in-depth knowledge of inferential statistics as applied to design of robust processes and products. Topics covered include probability distributions, ANOVA, fractional factorial design, response surface method, orthogonal arrays, and Taguchi method. Prior experience with introductory-level statistics is assumed. Prerequisite: TECH 5394 with a grade C or higher

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5365. Industrial Project Management and Scheduling.**

Introduce students to industrial management system concepts and applications as they relate to management operations; system design, implementation and management; case studies of practices; and application of theory to practical problems

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5382. Industrial Ecology and Sustainability Engineering.**

This course covers the basic principles of life cycle analysis (LCA) of engineered products and processes. Topics covered include: industrial ecology, resource depletion, product design, process design, material selection, energy efficiency, product delivery, use, and end of life considerations

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5384. Problems in Technology.**

Graduate students investigate a special topic by developing a technical problem, researching the topic, and presenting the findings. Plans will be developed on an individual basis with strict faculty supervision. May be repeated for additional credit with permission of the department chair

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5385. Readings in Technology.**

A study of the ethical and moral viewpoints typically associated with American society as related to the development and introduction of new technology and engineering. Past, present, and future issues will be studied with selected readings focusing on industrial related problems and issues

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5387. Advanced Facilities Planning.**

An in-depth study of technical problems encountered in designing, equipping, arranging, and specifying facility requirements for industrial and technical training facilities

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5390. Research in Technology.**

Examination of scientific methods including theory formulation, deductive reasoning, hypothesis generation, observation, inductive reasoning, and theory revision. Categories of research are compared and contrasted as regards methodology. In-depth study of experimental research as it relates to significant industrial problems including considerations of design, internal and external validity, and appropriate analytical technique. Introduction to data analysis and its proper interpretation

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TECH 5391. Advanced Manufacturing Systems.**

This course introduces students to various advanced tools, technologies, and strategies in modern manufacturing. An emphasis is placed on the state-of-the-art in factory automation and global manufacturing enterprises. Topics include process automation and control, advanced manufacturing processes, intelligent manufacturing control, and information technology in manufacturing. Prerequisites: TECH 1363 and TECH 5307 or instructor's approval

**3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5392. Fundamentals of Microelectronics Manufacturing.**

An introduction to integrated circuit fabrication to include crystal growth, wafer preparation, epitaxial growth, oxidation, diffusion, ionimplantation, thin film deposition, lithography, etching, device and circuit formation, packaging and testing. Significant project includes circuit design/simulation and/or process design. Laboratory component involves actual production/testing of a functional semiconductor device. I

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5394. Design of Industrial Experiments.**

This course deals with the study of the fundamentals and applications of industrial experiments. Prerequisite: TECH 5390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TECH 5398. Directed Project.**

This course is a formal investigation into a business or industry problem. The directed project is an applied research project that is more extensive than an independent study and less extensive than a thesis. The course culminates in a detailed project report and oral presentation. Prerequisites: TECH 5390 and TECH 5394 and the approval of the graduate advisor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Credit/No Credit

**TECH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Technology 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TECH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on credit (CR), progress (PR), no-credit (F) basis

**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

## Theatre (TH)

**TH 1210. Introduction to Musical Theatre.**

This course focuses on foundations for training for a professional career in musical theatre, with particular emphasis on interview and audition skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1211. Introduction to Musical Theatre II.**

This class continues the foundational work established in TH 1210 Introduction to Musical Theatre. It further develops the interview and audition skills necessary for a professional career in musical theatre. Prerequisite: TH 1210

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1340. Voice and Diction.**

The human voice and the sounds of speech. The student's own voice and pronunciation will be the primary concern, using practice sessions to develop more acceptable patterns of voice and sound

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DRAM 2336

**TH 1345. Beginning Voice.**

This course teaches basic principles of vocal production and its anatomy, including vocal variety and instinctual choice. It emphasizes proper vocal support, range, flexibility and health

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1350. Introduction to Theatrical Design.**

Course introduces the freshman theatre major to the four primary areas of theatrical design: costume design, scenic design, sound design, and lighting design. Each area's practice is explored and analyzed through a series of exercises that incorporate design projects

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 1354. Movement I.**

Creative movement for the theatre. Designed to stimulate the actor's body to increase flexibility and the kinetic response to environmental stimulus through exercise and research into the physical process

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1322

**TH 1355. Movement II.**

A continuation of Movement I and the exploration of kinesthetic response for the actor, using movement techniques in class performances and further research into the techniques of Alexander, Feldenkrais, and Laban. Prerequisite: TH 1354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TH 1358. Stagecraft.**

The study and practice of basic theatrical scenery construction which includes the use of power tools, various construction materials, construction techniques and basic stage rigging. Includes laboratory work in conjunction with University Theatre productions

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1330

**TH 1364. Beginning Acting.**

Beginning Acting. (2-1) Classroom exercises designed to explore and discover the actor's inner resources, and to develop the personal awareness of the student's imaginative potential. May be taken by non-majors independently

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1351

**TH 1365. Intermediate Acting.**

Intermediate Acting. (2-1) Classroom exercises designed to continue the exploration of the actor's inner resources; additional work on discovering techniques of developing a character. May be taken by non-majors independently. Prerequisite: TH 1364 or equivalent

**3 Credit Hours. 2 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1352

**TH 2111. Theatre Activities.**

A course designed to provide credit for participation in theatre activities. May be repeated to a total of four credits

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TCCN:** DRAM 1120

**TH 2210. Intermediate Musical Theatre I.**

This course focuses on intermediate interview and audition skills, intermediate personalizing the lyric skills, intermediate marketing skills, and basic scene study skills

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2211. Intermediate Musical Theatre II.**

This course focuses on intermediate musical theatre theory and analysis, acting through movement, and scene study of both period and contemporary musical theatre works

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2313. Introduction to Fine Arts.**

An introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of expression through the visual and performing arts. This course may not be repeated for credit by taking ART 2313, DAN 2313, or MU 2313

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Creative Arts Core 050

**Grade Mode:** Standard Letter

**TCCN:** HUMA 1315

**TH 2330. Stagecraft and Stage Lighting.**

This class teaches the facilities, tools, materials and techniques used to build scenery safely and effectively in the modern theatre. It also covers the facilities, tools, and techniques used to safely and effectively read a light plot, hang and focus stage lighting instruments. It includes a hands-on lab

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 2345. Experiencing Speech.**

This class focuses on the understanding of and the ability to use speech articulators in order to allow full, healthy production of all the sounds made in human language. While breaking chronic speech patterns, it aims for full speech flexibility and ability to healthfully create any sound the character requires. Prerequisite: TH 1345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 2354. Characterization.**

A studio acting course in which the student explores and develops techniques of creating a role. Prerequisite: TH 1365 or equivalent

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TCCN:** DRAM 2351

**TH 3111. Theatre Activities.**

This course is designed to provide credit for participation in theatre activities. It typically involves working on a departmental production. May be repeated for credit with different emphasis

**1 Credit Hour. 1 Lecture Contact Hour. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3120. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: MUSP 1121 and status as a Musical Theatre Major

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3220. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: MUSP 1121 and status as a Musical Theatre Major

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3310. Intermediate Voice.**

Continuing development of the fundamentals of voice and speech for the stage as well as exploring language and text. Practical application through assignments and in-class exercises. Prerequisite: TH 2345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3313. Introduction to Fine Arts.**

Introduction to Fine Arts. (3-0) This course is designed to give the student a critical understanding and appreciation of the history and principles associated with each of the artistic disciplines of theatre, dance, music and the visual arts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3320. History of the Theatre I.**

A study of the theatre and its place in the social and cultural evolution from primitive civilization to 1700. Selected examples of theatre literature are studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3321. History of the Theatre II.**

A study of the theatre and its place in the social and cultural evolution from 1700 to the present. Selected examples of theatre literature are studied. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3322. History of Musical Theatre.**

Course examines the history of musical theatre, from its antecedents through its Golden Age to present-day issues. In the process students will study musical theatre's elements and structure, as well as its creators, including major librettists, composers, lyricists, designers, directors, choreographers, and performers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3330. Advanced Stagecraft.**

This course covers the facilities, tools, materials, equipment and techniques used to safely produce, from a technical standpoint, live theatrical performances. The course includes woodworking, metal working, stage rigging, stage lighting, audio and, in general, good stage hand practices. Prerequisite: TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3338. Stage Lighting.**

This course in stage lighting design assumes basic knowledge of lighting technology equivalent to that learned in TH 2330. This class encompasses research, observation, group discussion, and practical "hands-on" projects with emphasis on learning to see light and developing a common language for light and the lighting design process. Prerequisite: TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3342. Television/Film Performance.**

A practical laboratory course in television and film performance techniques, including procedures and requirements for professional engagements. May be repeated with different emphasis for additional credit. Prerequisite: TH 1364

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3343. Stage Makeup.**

A practical course in developing techniques used in applying stage makeup. Emphasis is placed on painting, and contouring the face to achieve the desired effect. Special projects include fantasy makeup and mask making

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3344. Costume Construction.**

A practical approach to building costumes for the stage. Emphasis is on stitching techniques and introductory patterning. Practical experience with university productions required in laboratory

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 3346. Historical Costume Research.**

Historical Costume Research. (3-2) A study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3350. Technical Production.**

This course provides hands-on experience to qualified advanced students in technical theatre utilizing a series of rotating topics. Selected topics may include stage rigging, sound systems, remote device management, technical direction and/or technical writing/drawing. May be repeated for credit with different emphasis. Prerequisite: TH 2330 and approval of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3355. Playwriting.**

A study of play fundamentals (structure, dialogue, and mechanics), and guidance and discussion of representative plays. Prerequisite: Instructor approval is required prior to enrollment. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3358. Screenwriting.**

This course offers a comprehensive study of the art and craft of writing screenplays. During a semester of intensive writing, readings, script analysis, and critiques, writers complete assignments in storytelling, character, structure, and script development. Each writer completes a full-length screenplay as the capstone project for the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**TH 3359. Advanced Screenwriting.**

This course focuses on the development of full-length screenplays. May be repeated for credit with different emphasis. Prerequisite: TH 3358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3360. Beginning Stage Combat.**

An introductory course in stage combat. A hands-on approach with emphasis placed upon actor safety, dramatic requirements of the script, and historical accuracy. Repeatable for credit with different emphasis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3364. Acting Realism.**

A studio course emphasizing the theories and methods of Stanislavsky in order to create characters in realistic drama. Prerequisite: TH 1365

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3365. Acting Styles.**

A studio course emphasizing the theories and methods of Stanislavsky in order to create characters in realistic drama. Prerequisite: TH 1365

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 3367. Theory and Analysis.**

A study of dramatic theory and play analysis for production, including the study of forms, styles, and methods. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 3370. Creative Drama.**

Emphasis on process drama theory and using creative drama as both an art form and as a teaching tool. Through class activities, students will develop effective facilitator skills and incorporate innovative strategies for teaching traditional material in non-traditional ways

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 3390. BFA Pre-Professional Apprenticeship I.**

Intensive work in one of the following career paths: Acting, design, and theatre technologies, costuming. Prerequisite: Formal admission into the Bachelor of Fine Arts Pre-professional Program

**3 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4120. Musical Theatre Singing Technique.**

This course is for advanced, private study in musical theater singing technique. Via private instruction, students will study multiple areas of musical theatre singing technique including singing for the microphone, belting, placement, and diverse musical theater styles (pop, rock, Golden Age, contemporary musical theater, etc). Prerequisite: TH 3120 or TH 3220 and Senior status as a Musical Theatre Major

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4301. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry. May be repeated once for credit. Prerequisite: Consent of instructor

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4310. Theatre Curriculum Development.**

Course builds on a requisite knowledge of basic educational theory and lesson plan structure with an emphasis on developing and implementing a successful Theatre curriculum. Practical and effective strategies for teaching middle school and high school Theatre will be examined

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 4320. Directing Theatre Activities.**

Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4323. Shakespeare Through Performance.**

This intensive summer study abroad program immerses students in the language and culture of Shakespeare's plays. Incorporating a performance-based approach to the study of Shakespeare, this course includes theatrical workshops taught by professionals at leading international theatres, including the Royal Shakespeare Company

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4324. Shakespeare: Text and Context.**

This intensive study abroad program immerses students in the language and culture of Shakespeare's plays. In Stratford, academic workshops are led by scholars from the Shakespeare Birthplace Trust. Through immersion in the cultural environment in which the plays were produced, students gain insight into the context that shaped Shakespeare's theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4330C. Improvisation for the Actor.**

This course teaches improvisational skills for actors via the use of theatre games and experiential exercises. This course is repeatable one time for credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330D. Actor, Artist, Aesthetic.**

This course focuses on group and individual created works of art.

Students will explore their personal artistic aesthetic and create a piece that will be performed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330F. Singing for the Actor.**

This course focuses on developing the vocal instrument and singing skills for actors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330G. Design for Educational Theatre.**

The course consists of three sections covering Scenic Design, Lighting Design and Production Elements. It is intended for Teacher Certification students with the goal of providing the tools to be successful when dealing with limited resources, reduced personnel and challenging theatre venues at their schools. Prerequisite: TH 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330H. Technical Theatre Intensive.**

This course provides the technical skills necessary to work effectively as a high school or middle school theatre teacher. It focuses on the facilities, tools, materials and techniques used to build scenery safely and effectively in the modern theatre. Laboratory meetings extend the lecture subjects with practical examples and experiences. Prerequisite: TH 4330G

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required|Topics

**Grade Mode:** Standard Letter

**TH 4330I. Theatre Drafting.**

This course is a study of manual drafting techniques for scenery and lighting designers and technicians. It is required for all BFA scenic and lighting students. Prerequisite: TH 2338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330J. Drawing for the Designer.**

This course is a studio class with a focus on drawing for the scenic, lighting, and costume design student. Required of all BFA design majors. Prerequisite: TH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330K. Painting for the Designer.**

This course is a studio class that will explore painting techniques for the theatrical designer. Required of all BFA design majors. Prerequisite: TH 4390

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330L. Welding for the Stage.**

Welding for the Stage. (3-0) This course offers a hands-on study of the principles and practices utilized in the fabrication of steel framed stage scenery for the live entertainment industry. Emphasis will be on safely cutting and welding mild carbon steel using gas metal arc welding. Includes joint design and cost estimation. Prerequisite: TH 3330 or consent of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330M. Advanced Stage Management.**

The goal of this course is to examine stage management and hone the necessary skills in the areas of theatre, dance, festivals, live events, showcases, and opera. Prerequisite: TH 4334

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330N. Company and Production Management for the Arts.**

The goal of this course is to examine the job duties (and overlapping tasks) of members of a theatrical producing arts team with a focus on Company and Production Managers. There will be an emphasis on group management and organizational tools

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330P. Teaching Artists in Schools and Communities.**

What is a teaching artist? This course will examine the current and historical role of theatre artists applying their knowledge and skills in school and community-based settings. Our discussions will be framed by a practical fieldwork experience in a school or community location

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330Q. Contemporary Theatre Workshop.**

This course examines the landscape of contemporary theatre. Students will read, analyze, and perform scenes from dramatic literature written from the 1990s to the present. It will examine what kinds of artistic trends, styles, and issues are at play in contemporary theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330R. Oregon Shakespeare Festival Intensive.**

This course examines theatre production at the regional theatre level by exposing students to the work of the Oregon Shakespeare Festival. Students will study issues of translating the current season's nine plays from script to stage, as well as analyze the perspectives and choices that inform each production

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330S. Ethnic Theatre Workshop.**

This course explores the creative challenges of performing selections from the African American, Latino American, Native American, and Asian American experience. Students will work with poetry, folktales, monologues, and duet scenes. The course will also include an overview of the literature and history of Ethnic Theatre in America

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330T. Film Editing.**

This course provides an examination of visual, auditory, and special effects editing techniques for film. It includes practical projects for editing commercials, documentaries, and/or narrative films. Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter



**TH 4330U. Sound Technology.**

This course provides an understanding of audio technology, the components of sound systems and their application for live entertainment, including theatre and dance productions. It includes hands-on work in the theatre on departmental productions. Prerequisites: TH 1350 and TH 2330

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330V. Sound Design.**

This course provides an understanding of sound design and its application for live entertainment, including theatre and dance productions. It involves an exploration of the sound design process and practical application through class projects. Prerequisite: TH 4330U

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330W. Television Writing.**

This course focuses on the techniques of writing for television, including both half-hour situational comedies and hour-long dramas. Students will pitch story ideas, develop beat sheets, write treatments, and complete written scripts. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330X. Drama and Adaptation.**

This course focuses on the development of new theatrical scripts based on existing stories and source material. Students will explore a variety of potential source materials, pitch adaptation ideas, and complete a written script. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4330Y. Film Lighting.**

This course provides an understanding of the principles, techniques and equipment used in lighting for film. It involves consideration of both technical and design elements. Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Topics

**Grade Mode:** Standard Letter

**TH 4332. Theatre in Education.**

This course provides an in-depth examination of Applied Theatre as it is used in a variety of settings, including elementary and middle school classrooms, recreation facilities, and in community outreach programs

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4334. Stage Management.**

This is a seminar course in stage management, focusing on organization, techniques, and practices for managing stage productions from initial planning through performance

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4335. Stage Management Practicum.**

This course is a hands-on practicum in which select students stage manage a departmental production, from auditions through the completion of the production. Prerequisite: TH 4334

**3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4338. Lighting Design.**

Lighting design is a continuation of the principles covered in Stage Lighting. This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color, script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design. Prerequisite: TH 2338. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4340. Business of Film.**

This course focuses on how film projects are put together, from development to production, with an emphasis on job opportunities that are available in the film industry. Where applicable, working professionals are brought in as guest lecturers to provide a hands-on perspective of working in the film industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4341. Short Film Development.**

This course focuses on the essential elements that go into the pre-production phase of developing a short film project. Emphasis is on script research, writing, budgeting, scheduling, finance, and development

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4345. Costume Design.**

A study of the principles and elements to relate to designing theatrical costumes. Includes experience in research as well as developing drawing and rendering techniques. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4346. Advanced Costume Design.**

Continued development of costume design skills. Includes research as well as advanced drawing and rendering techniques. Repeatable for credit with different emphasis. Prerequisites: TH 3344 and TH 4345

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4347. Advanced Costume Construction.**

An advanced course in building costumes for the stage. Advanced techniques in sewing as well as pattern design and drafting is included. Repeatable for credit with different emphasis. Prerequisite: TH 3344

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter



**TH 4355. Scene Painting.**

Theory and practice of scene painting for the theatre, with hands-on projects implementing various scene-painting techniques. Students will also have the opportunity to work as scenic artists on departmental productions

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4356. Advanced Theatre Drafting.**

A study of computer techniques and procedures used in the preparation of design and technical drawings for theatrical drafting. Prerequisite:

TH 4390 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4357. Scene Design.**

A study of scene design for theatre, focusing specifically on process of scenic designer with practical assignments including renderings and scaled models. Prerequisites: TH 1358 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4360. Problems in Theatre.**

Problems in Theatre. (3-0) Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4361. Dialects For Actors.**

A study of the International Phonetic Alphabet and other vocal techniques used to create vocal variations such as regional, national, and international dialects. Prerequisite: TH 3310

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4363. Directing For Film.**

An in-depth examination of directing theories and procedures for film with practical filming and editing exercises

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4364. Directing I.**

A study of the fundamentals of directing with practical experience provided by directing scenes. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Writing Intensive

**Grade Mode:** Standard Letter

**TH 4365. Directing II.**

A study of directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: TH 4364. (WI)

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive

**Grade Mode:** Standard Letter

**TH 4370. Children's Theatre.**

Continuation of Creative Dramatics, and the theory and practice related to all phases of producing plays for and with young people through junior high school age. Practical experience in a University production as required for one semester. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4372. Theory and Practice of Dramaturgy.**

Study of the practical application of historical research and textual analysis in the production of period plays and new works. Emphasis upon the dramaturg as an instrument of collaboration between members of the artistic team and as a facilitator of audience outreach. Prerequisite:

TH 3367

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4373. Advanced Film Directing.**

An in-depth examination of narrative filmmaking that includes screenplay analysis, storyboarding, scheduling the shoot, directorial techniques, staging actors, camera placement, filming on location, and editing.

Prerequisite: TH 4363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4375. Advanced Playwriting.**

This course focuses on an in-depth study of the techniques of playwriting and the variety of styles that a playwright might employ. The course culminates with the writing of a full-length play. Prerequisite: TH 3355

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4376. Advanced Lighting Design.**

This course focuses on advanced principles of light design and lighting aesthetics. It covers the variable elements one encounters during the design process as it applies to stage lighting. Prerequisite: TH 4338

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4377. Advanced Scene Design.**

This course emphasizes working with directors and other designers in creating a design for the stage. Students will improve verbal and visual communication skills as well as further develop drawing/painting/modeling/drafting skills. The course involves multiple projects including creating an original performance art piece with a director and other designers. Prerequisite: TH 4357

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 4378. Play Development Lab.**

This course provides a laboratory workshop development process for new plays. It provides a structured environment for rigorously revising student-written works. Prerequisite: TH 4375 or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4390. BFA Pre-Professional Apprenticeship II.**

Intensive laboratory work in individual and group theatre methods for the actor, designer, or technician. Each apprenticeship from BFA II to V will focus upon a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4391. BFA Pre-Professional Apprenticeship III.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 4392. BFA Pre-Professional Apprenticeship IV.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4393. BFA Pre-Professional Apprenticeship V.**

A continuation of laboratory work for the actor. Each apprenticeship from BFA II-V will focus on a specific theatrical discipline for the actor, i.e. advanced vocal work, music theatre, performing Shakespeare, performing new scripts, advanced movement techniques, and further development of the internal process

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 4395. Advanced Scene Study.**

This course is a capstone acting course for the B.F.A. Acting and Musical Theatre students that involves both advanced scene study work as well as preparation for professional auditions and showcases. Restricted to seniors in the B.F.A. Acting and Musical Theatre programs

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 4601. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry; it is intended for students who do a full-time internship over the summer or during the fall or spring semesters. Prerequisite: Consent of instructor. 186 Texas

**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5199B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5299B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis

**2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5301. Drama Research.**

An examination of problems and research techniques in drama. Historical, critical, descriptive, and experimental research approaches will be surveyed and basic procedures in research report writing will be considered. Required of theatre majors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5302. Text Analysis, Research and Interpretation.**

This course reviews various methods of analysis of a dramatic text. This includes inductive, deductive, structural, and methodical approaches. It also examines techniques for production research and explores issues of interpretation that affect the development of a play's translation into a production on stage

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5303. Conceptualization and Composition.**

This course investigates conceiving and developing a production concept and/or production context. It also explores how the concept/context is useful in the formation of a plan of staging. Finally, it examines potential blocking and staging implications that result from conceptualization and context, as well as composition implications

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5310. Graduate Assistant Development.**

This course is required as a condition of employment for graduate teaching and instructional assistants. This course covers topics related to employment responsibilities. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**TH 5312. Director/Designer Collaboration.**

This course examines the nature of director/designer collaboration. Areas studied and developed include the director's visual perceptions, visual interpretations, and visual choices. In addition, attention is focused on discovering and uncovering these characteristics embedded in theatrical texts

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5313. History of Directing and Scenography.**

This course is a historical survey of the work of directors and designers. Particular emphasis will be on seminal production plans for notable directors and designers of the 20th and 21st centuries

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5320. Directing Theatre Activities.**

Designed to assist any teacher in directing theatre activities. During the course, students will direct plays or scenes. May be repeated with different emphasis for additional credit. Graded on a credit (CR), no credit (F) basis

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Credit/No Credit

**TH 5323. Shakespeare Through Performance.**

This intensive summer study abroad program immerses students in the language and culture of Shakespeare's plays. Incorporating a performance-based approach to the study of Shakespeare, this course includes theatrical workshops taught by professionals at leading international theatres, including the Royal Shakespeare Company

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5324. Shakespeare: Text and Context.**

This intensive study abroad program immerses students in the language and culture of Shakespeare's plays. In Stratford, academic workshops are led by scholars from the Shakespeare Birthplace Trust. Through immersion in the cultural environment in which the plays were produced, students gain insight into the context that shaped Shakespeare's theatre

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5330. Stage Management.**

An in-depth seminar in stage management, including organization, techniques, and practices for managing stage productions from initial planning through performance

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5331. Television Writing.**

This course focuses on the techniques of writing for television, including both half-hour situational comedies and hour-long dramas. Students will pitch story ideas, develop beat sheets, write treatments, and complete written scripts. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5332. Stage Properties.**

This course trains students in the craft, artistry and management of stage properties for careers in theatre, film and the entertainment industry

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5334. Figure Drawing for Theatre Design.**

This course covers drawing the human figure using traditional media, technique and application. Intended for the theatre designer, this course places special emphasis on aspects of drapery as they relate to the human figure

**3 Credit Hours. 3 Lecture Contact Hours. 1 Lab Contact Hour.**

**Grade Mode:** Standard Letter

**TH 5338. Advanced Stage Lighting.**

Graduate lighting design is a continuation of the principles covered in Lighting Design (undergraduate). This course will concentrate primarily on the aesthetics of stage lighting, and will cover such topics as: viewer psychological and physiological responses as they pertain to visual perception; color; script analysis; use of light in creating both static and dynamic visual compositions; development and graphic representation of a theatrical lighting design

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5340. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry. Consent of Instructor required

**3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing|Lab Required

**Grade Mode:** Standard Letter

**TH 5341. Dramatization and Adaptation.**

This course focuses on the development of new theatrical scripts based on existing stories and source material. Students will explore a variety of potential source materials, pitch adaptation ideas, and complete a written script. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5342. MFA Studio I.**

This course focuses on work with actors. Students will explore various rehearsal methods, motifs and strategies. Students will direct two short scenes for class and explore effective ways of working with actors. In addition, students will observe directors and acting coaches in the department work with and coach actors

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5343. MFA Studio II.**

Builds upon the work of MFA Studio I. This course examines additional techniques for working with actors as well as tools the director can use to shape each unit of performance text in order to build a dramatic story on stage. Students will analyze, rehearse and perform a one-act play. Prerequisite: TH 5342

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5345. Advanced Studies in Costume Design.**

Costume problems for entire productions

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5346. Historical Costume Research.**

This course is a study of clothing, accessories, and customs of selected theatrical periods as an approach to costuming period plays

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5347. Advanced Costume Construction.**

A graduate course on the advanced level that studies the construction of costumes for the stage. Advanced techniques in sewing, pattern drafting/design as well as accessories/crafts construction is included

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5350. Second Year Project.**

Students in the second year of the MFA in Theatre will direct, design, or write for a departmental production. The course includes a written report of the project that demonstrates an understanding of the creative process of the chosen discipline. Prerequisite: Completed at least 18 graduate hours towards their M.F.A

**3 Credit Hours. 0 Lecture Contact Hours. 3 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5351. History of Architecture and Interiors for Theatrical Design.**

This course is a study of architecture and interiors throughout history as it impacts design for theatre. This course will look at periods of design from ancient Egypt to the early Twentieth Century

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5352. MFA Studio III.**

MFA Studio III is the student's second year project. The course includes all phases of directing a play, from conception and research, to rehearsal and performance. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5353. MFA Studio IV.**

A primary focus of the course is on experimental theatre. Students rehearse and perform scene work from 20th and 21st century plays, and put together a final experimental performance project. Prerequisite: TH 5343

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5354. Playwriting.**

A seminar in the art and craft of playwriting, from initial idea through a completed draft of a play. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5355. Scene Painting.**

Theory and practice of scene and costume painting as developed in the Italian Renaissance and continuing into new media available today. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5356. Advanced Theatre Drafting.**

A study of computer drafting techniques and procedures used in the preparation of design and technical drawings for theatrical scenery, costumes, and lighting

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5357. Scene Design.**

Seminar on design, emphasizing presentation and justification of executed renderings or models for selected plays. Emphasis on styles of staging, settings, lighting and properties, and their relationship to the complete production. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5358. Screenwriting.**

This course offers a comprehensive study of the art and craft of writing screenplays. During a semester of intensive writing, readings, script analyses, and critiques, writers complete assignments in storytelling, character, structure, and script development. Each writer completes a full-length screenplay as the capstone project for the semester

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5359. Advanced Screenwriting.**

This course focuses on the development and revision of full-length screenplays. May be repeated for credit with different emphasis.

Prerequisite: TH 5358

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5360. Problems in Theatre.**

Designed to give supervised experience to qualified advanced students in theatre history, playwriting, directing, acting, technical, or other theatre problems. Research problems or actual production problems may be chosen. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5361. Oregon Shakespeare Festival Intensive.**

This course examines theatre production with a specific focus on directors and directing at this country's largest Shakespeare theatre, the Oregon Shakespeare Festival. Students will study issues of translating the current seasons' nine plays from script to stage, as well as analyzing the perspectives and choices of each director's production

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5363. Directing for Film.**

An in-depth examination of directing theories and procedures for film with practical filming and editing exercises. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5364. Stage Directing.**

Development of skills in analysis, research, staging, and production, with practical experience provided by directing scenes

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5365. Backgrounds of Modern Drama.**

An analysis of those developments in dramatic literature that formed the basis of modern drama. Primary emphasis will be on nineteenth-and twentieth-century European and American drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5366. Directing Styles.**

A study of directing different dramatic styles. Students will direct a one-act play during regular semesters. Prerequisite: TH 5364 or permission of instructor

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TH 5367. Studies in Dramatic Theory and Criticism.**

The study of dramatic theory and criticism from Aristotle to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5368. American Theatre and Drama.**

Studies in the development of the American theatre and drama from colonial days to the present

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5369. Contemporary World Theatre and Drama.**

Studies of current trends in world theatre and drama

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5370. Studies in Advanced Creative Dramatics for Children.**

Studies of the methods of creative dramatics and their use in the classroom

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5371. Classical and Renaissance Drama.**

Seminar in Greek, French Neoclassical, and English Renaissance theatre, with intensive examination of selected works by Sophocles, Euripides, Shakespeare, and Marlowe. Primary focus will be on analysis of the plays as performance texts, and on the historical cultural environments in which the plays were created and first performed

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5372. Theory and Practice of Dramaturgy.**

Study of the practical application of historical research and textual analysis in the production of period plays and new works. Emphasis upon the dramaturg as an instrument of collaboration between members of the artistic team and as a facilitator of audience outreach

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5373. Advanced Film Directing.**

An in-depth examination of narrative filmmaking that includes screenplay analysis, storyboarding, scheduling the shoot, directorial techniques, staging actors, camera placement, filming on location, and editing.

Prerequisite: TH 5363

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5374. Art History for Theatrical Design.**

This course focuses on major art movements since the Renaissance. Baroque, Rococo, Neoclassicism, Romanticism, Realism, Impressionism, Expressionism, Surrealism, and other movements from throughout the world are studied in relationship to their use by theatrical designers

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5375. Advanced Playwriting.**

This course focuses on an in-depth study of the techniques of playwriting and the variety of styles that a playwright might employ. The course culminates with the writing of a full-length play. Prerequisite: TH 5354

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5377. Studies in Advanced Theatre Directing.**

A study of directors, theories, and problems of directing in the contemporary theatre. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5378. Play Development Lab.**

This course provides a laboratory workshop development process for new plays. It provides a structured environment for rigorously revising student-written works. Prerequisites: TH 5375 or instructor approval

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Course Attribute(s):** Exclude from 3-peat Processing

**Grade Mode:** Standard Letter

**TH 5382. MFA Studio V.**

This course offers a study of and experience in preparing and directing Shakespeare: from inception of a given approach to handling the language issues to performance. This course examines how professional directors actually work on production for major Shakespeare theatres in America

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Course Attribute(s):** Lab Required

**Grade Mode:** Standard Letter

**TH 5383. MFA Studio VI.**

This course continues the styles work started in MFA Studio V. It focuses on directing projects from multiple periods and styles of plays. Scenes will be drawn from several periods of dramatic literature including Ancient Greece, the English Restoration, Moliere, Georgian, and other High Comedy texts. Prerequisite: TH 5382

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5387. Directing Practicum.**

Study of and experience in choosing, preparing, and directing a theatre production from analysis to performance. Attention is given to theatre organization and management. May be repeated with different emphasis for additional credit

**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5397. Diagnostic Creative Project.**

This project involves the design of a relatively simple theatrical production that is produced by University Theatre. Complete production plans are prepared under faculty guidance, followed by faculty evaluation and debriefing after production. Requires Department Approval

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter

**TH 5398. Final Creative Project.**

To be taken the last year of training. This project requires the student to direct a major University Theatre production. The student must demonstrate mastery of directing. A complete written report of the project must be approved by a faculty committee. The report is a part of the final examination for the degree of Master of Arts with a major in Theatre for students in Directing

**3 Credit Hours. 3 Lecture Contact Hours. 2 Lab Contact Hours.**

**Grade Mode:** Standard Letter



**TH 5399A. Thesis.**

This course represents a student's initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in Theatre 5399B. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**TH 5399B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**TH 5599B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

**TH 5640. Professional Internship.**

This course provides professional hands-on experience in the theatre or film industry; it is intended for students who do a full-time internship over the summer or during a regular full semester. Consent of instructor required  
**6 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.**  
**Course Attribute(s):** Lab Required  
**Grade Mode:** Standard Letter

**TH 5999B. Thesis.**

This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no-credit (F) basis  
**9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Credit/No Credit

## University Seminar (US)

**US 1100. University Seminar.**

University Seminar is an introduction to the nature and aims of university education, with special emphasis on the value of broad learning. US 1100 is required of all undergraduate students entering the university with 0-15 semester credit hours completed since high school graduation  
**1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing  
**Grade Mode:** Standard Letter

## Women's Studies (WS)

**WS 3376. Images of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is a survey of the changing images of women in the U.S. since 1800 through the eyes of historians, writers, artists, orators, the media, and educators. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**WS 3377. Realities of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is the study of realities faced by women in the U.S. today--including biological and psychological differences in males and females, politics and the law, the work force, and the home. Gender roles in societies outside the U.S. will also be examined. (MULT)  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Multicultural Content|Writing Intensive  
**Grade Mode:** Standard Letter

**WS 4388. Independent Research in Women's Studies.**

Independent study course open to advanced students on an individual or small group basis. The research area in Women's Studies, bibliography, and study paper outline are to be approved by the instructor  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Course Attribute(s):** Exclude from 3-peat Processing|Writing Intensive  
**Grade Mode:** Standard Letter

**WS 5376. Images of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is a survey of the changing images of women in the U.S. since 1800 through the eyes of historians, writers, artists, orators, the media, and educators  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**WS 5377. Realities of Women.**

This course, one of two multidisciplinary team-taught women's studies courses, is a study of the realities faced by women in the U.S. today--including biological and psychological differences in males and females, politics and law, the work force, and the home. Gender roles in societies outside the U.S. will also be examined  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

**WS 5388. Independent Research in Women and Gender Studies.**

Independent research course open to students on an individual or small group basis. The research area in Women and Gender Studies, bibliography, and study paper outline are to be approved by the instructor. Prerequisite: Approval of the Director of Multicultural and Gender Studies  
**3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.**  
**Grade Mode:** Standard Letter

# FACULTY

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**Current Faculty** (p. 1675)

**President Emeriti (In Perpetuity)** (p. 1707)

**Regents' Professor and University Distinguished Professor Emeriti (In Perpetuity)** (p. 1707)

**University Distinguished Professor Emeriti (In Perpetuity)** (p. 1707)

**Distinguished Professor Emeriti (In Perpetuity)** (p. 1708)

**Professor Emeriti (Lifetime Designation)** (p. 1709)

**Associate Professor Emeriti (Lifetime Designation)** (p. 1711)

**Assistant Professor Emeriti (Lifetime Designation)** (p. 1713)

**Instructor Emeriti (Lifetime Designation)** (p. 1713)

**Retired Faculty (Lifetime Designation)** (p. 1713)

## Current Faculty

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- B (p. 1676)
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- X (p. 1707)
- Y (p. 1707)
- Z (p. 1707)

## A

Aamot, Craig A, Lecturer, M.M., Texas State University

Abate, Cassandra Ann, Assistant Professor, M.F.A., San Diego State University

Abel, Michael Gregory, Senior Lecturer, Ph.D., University of Tennessee

Abramovitch, Amitai, Assistant Professor, Ph.D., Tel Aviv University

Abreu Mendoza, Carlos, Assistant Professor, Ph.D., Univ North Carolina at Chapel Hill

Acee, Taylor W, Associate Professor, Ph.D., University of Texas at Austin

Ackerson, Carla J, Clinical Lecturer, M.S.W., University of Texas at Arlington

Acosta, Maria T, Associate Professor, Ph.D., University of Arizona

Adams, Damon S, Lecturer, M.Ed., Texas AM Univ-Kingsville

Adams, Laura L, Lecturer, Ph.D., Univ of Texas Southwestern Med Ct

Adepoju, Omolola E, Assistant Professor, Ph.D., Texas AM University

Adkins, Thomas R, Lecturer, J.D., Southern Methodist University

Aguayo, Federico Macias, Assistant Professor, Ph.D., University of Texas at Austin

Aguilar, Jeannie Marie, Lecturer, Ph.D., University of Texas at Austin

Aguirre, Emmeline R, Lecturer, M.A., University of Texas at Austin

Agwuele, Augustine, Associate Professor, Ph.D., University of Texas at Austin

Ahlman, Todd Michael, Asst Professor of Practice, Ph.D., University of Tennessee

Ahn, Mira, Associate Professor, Ph.D., Virginia Poly Inst State Univ

Ahrens, Jennifer N, Clinical Assistant Professor, Ph.D., Texas State University

Aidman, Barry Joel, Assistant Professor, Ph.D., University of Texas at Austin

Ainslie, Daphny Leah Dominguez, Lecturer, Psy.D., Our Lady of the Lake University

Alanis, Emmanuel, Assistant Professor, Ph.D., Texas AM University

Alcala, Sylvia G, Lecturer, M.A., Ashford University

Alexander, John Lewis, Clinical Lecturer, B.S.R.C., Texas State University

Alexander, Lonny, Lecturer, B.A., Texas State University

Alfaro, Edna C, Assistant Professor, Ph.D., Arizona State University

Alfau, Antonio de Jesus, Lecturer, M.A., University of Texas at Austin

Alfonso, Monica J, Lecturer, M.F.A., Syracuse University Main Campus

Alford, Allison McGuire, Lecturer, Ph.D., University of Texas at Austin

Ali, Moonis, Professor, Ph.D., Aligarh Muslim University

Allcorn, Jerrod R, Lecturer, B.S., Texas State University

Allen, Brian Sterling, Assistant Professor, M.F.A., Bard College

Allen, Judy Little, Professor Emerita, Ph.D., Texas Tech University

Alley, Debbie Ruth, Chair - Professor, M.F.A., Illinois State University

Allison, Elizabeth A, Professor, Ph.D., University of South Florida

Allison, Jeffrey Corbin, Lecturer, Ph.D., University of Texas at Austin

Allsup, Roxane Cuellar, Associate Professor, Ph.D., Texas AM University

Ally, Murtaza, Lecturer, M.B.A., St. Edward's University

Alvarado, Melissa, Lecturer, Ph.D., Texas AM Univ-Corpus Christi

Ameri, Farhad, Associate Professor, D.Eng., University of Michigan-Ann Arbor

Anderson, Audwin L, Associate Professor, Ph.D., Texas AM University

Anderson, Cassandra J, Assistant Professor, M.A., Webster University

Anderson, Sidney Thomas, Assistant Professor, Ph.D., Florida State University

Andrade, Edwardo, Lecturer, M.S.I.S., Texas State University

Angelow, David E, Lecturer, M.B.A., Univ of Wisconsin-Madison

Angirasa, Aditi K, Professor, Ph.D., Texas AM University

Angulo, Sarah K, Senior Lecturer, Ph.D., University of Texas at Austin

Appignani, Timothy Patrick, Lecturer, M.L.A., Temple University

Archer, Richard L, Professor, Ph.D., Duke University

Arledge, Jane A, Lecturer, Ph.D., University of Colorado Boulder

Arledge, Roy Wade, Lecturer, J.D., St. Mary's University

Armstead, Sharon Vivienne, Clinical Assistant Professor, M.B.A., Grand Canyon University

Armstrong, Sonya Lee, Associate Professor, Ed.D., Univ of Cincinnati Main Campus

Arnio, Ashley Nichole, Assistant Professor, Ph.D., Florida State University

Arnold, Charles B, Senior Lecturer, M.A., Texas State University

Aroian, Mihran A, Lecturer, M.B.A., University of Texas at Austin

Arreguin, Alexis James, Lecturer, M.A., Texas State University

Asbell, Stephanie Ames, Assistant Professor, D.M.A., University of Texas at Austin

Ash, Gwynne Ellen, Professor, Ph.D., University of Georgia

Ashford, Shetay Nicole, Assistant Professor, Ph.D., University of South Florida

Ashley, Lauren Shirley, Lecturer, M.Ed., Lamar University

Asiabanpour, Bahram, Associate Professor, Ph.D., University of Southern California

Aslan, Semih, Assistant Professor, Ph.D., Illinois Institute of Technology

Aspbury, Andrea, Senior Lecturer, Ph.D., Univ of Nebraska

Assaf, Lori Czop, Professor, Ph.D., University of Texas at Austin

Ausbrooks, Angela R, Associate Professor, Ph.D., University of Texas at Austin

Averyt, Beverly, Lecturer, M.Ed., Texas State University

Awoniyi, Stephen A, Associate Professor, Ph.D., Indiana University Bloomington

## B

Babcock, Jonathan P, Associate Professor, D.M.A., University of Hartford

Bachman, Teresa Richelle, Clinical Assistant Professor, D.P.T., The Univ of Montana-Missoula

Badrinarayanan, Vishag A, Associate Professor, Ph.D., Texas Tech University

Baer, Ana Carrillo, Associate Professor, M.F.A., University of Colorado Boulder

Bagnulo, Ashleen, Assistant Professor, Ph.D., University of Notre Dame

Bahney, Jean S, Lecturer, Ed.D., Texas AM Univ-Commerce

Bajackson, Robert E, Senior Lecturer, M.A., Texas AM Univ-Commerce

Baker, Candace K, Lecturer, Ph.D., Southern Illinois Univ Carbondale

Baker, Christopher, Lecturer, D.C., Texas Chiropractic College

Baker, Daniel G, Senior Lecturer, M.Ed., Texas State University

Balanoff, Howard R, Professor, D.Ed., Texas AM University

Balanoff, Marilyn K, Extension Educator

Balcer, Mary K, Lecturer, M.Ed., Texas State University

Baldwin, Patricia Cafferty, Lecturer, Ph.D., University of North Texas

Ballinger, Thomas Justin, Assistant Professor, Ph.D., Kent State University

Balmer, Elizabeth Johanna, Lecturer, Ph.D., Washington State University

Baltzly, Vaughn Bryan, Assistant Professor, Ph.D., Univ of Maryland College Park

Balzhiser, Deborah Ann, Associate Professor, Ph.D., Illinois State University

Bandy, Carla Avant, Lecturer, B.F.A., Sul Ross State University

Bandy, Carroll L, Professor, Ph.D., University of Houston

Banerjee, Suparno, Associate Professor, Ph.D., Louisiana State Univ AM College

Bannerot, Joyce Marie, Lecturer, Ph.D., University of Texas at Austin

Banta, Marilyn R, Senior Lecturer, Ph.D., University of Nevada, Reno

- Barasch, Carole L, Lecturer, M.A., Texas Tech University
- Barcenas Pardo, Alejandro, Assistant Professor, Ph.D., Univ of Hawaii at Manoa
- Barile, John Steele, Clinical Lecturer, B.S.R.C., Texas State University
- Barnhart, Omar Nicholas, Lecturer, M.Ed., Texas State University
- Barr, Geoffrey Ira, Lecturer, J.D., St. Mary's University
- Barr, Jessica Lee, Affiliate Instructor, BSN, The University of Alabama
- Barry, William J, Lecturer, M.Ed., Texas State University
- Barton, Seth C, Lecturer, M.A., Texas State University
- Bartz, Ezra J, Senior Lecturer, D.M.A., University of Texas at Austin
- Batey, Andy H, Chair - Associate Professor, Ph.D., Univ of Maryland College Park
- Baucus, Melissa Smith, Professor, Ph.D., Indiana University Bloomington
- Baykal-Caglar, Eda, Lecturer, Ph.D., Chatham College
- Baylor, Debbie A, Senior Lecturer, M.Ed., University of Texas at Austin
- Beale-Rosano-Rivaya, Yasmine C, Associate Professor, Ph.D., Univ of California-Los Angeles
- Beall, Gary W, Associate Dean, College of Science and Engineering and Professor, Ph.D., Baylor University
- Beatty, Caroline C, Associate Professor, D.M.A., University of Michigan-Ann Arbor
- Becerra, Enrique P, Associate Professor, Ph.D., Florida Atlantic University
- Beck, Brandon Luciani, Lecturer, Ph.D., Texas State University
- Beebe, Steven A, Interim Chair - Regents' Professor, Ph.D., Univ of Missouri-Columbia
- Belcik, Kimberly Dawn, Clinical Assistant Professor, Ph.D., University of Texas at Austin
- Bell, James D, Professor, Ph.D., The Univ of Akron Main Campus
- Bell-Metereau, Rebecca L, Professor, Ph.D., Indiana University Bloomington
- Bellini, Brigitte Kathryn, Senior Lecturer, M.M., New England Conservatory of Music
- Benavente, Viola G, Assistant Professor, Ph.D., University of Pennsylvania
- Benavides, Elizabeth Ashley, Assistant Professor, Ph.D., Univ of Missouri-Columbia
- Benavides, Ida M, Senior Lecturer, M.A., Texas State University
- Bender, Stacey H, Lecturer, M.Ed., Texas State University
- Benedikt, Amelie F, Senior Lecturer, Ph.D., University of Texas at Austin
- Benitez, Sylvia, Lecturer, M.A., Wayland Baptist University
- Bennett, David Evan, Lecturer, M.A., Texas State University
- Bennett, Marion Morrison, Associate Professor, Ph.D., University of North Texas
- Benton, Amy D, Assistant Professor, Ph.D., Univ of California, Berkeley
- Benz, Sarah Adair, Lecturer, M.Ed., Vanderbilt University
- Bergeler, Elmar, Lecturer, Ph.D., Dresden University of Technology
- Bergh, Joel Justin, Senior Lecturer, Ph.D., University of Delaware
- Berglund, Rose M, Lecturer, M.Ed., Texas State University
- Berkovsky, Randi Elizabeth, Lecturer, MPS, Georgetown University
- Berlage, Nancy Kay, Assistant Professor, Ph.D., Johns Hopkins University
- Berno, Thomas C, Professor, M.F.A., Texas State University
- Bernstein, Beth Ann, Lecturer, Ph.D., Univ of New Mexico Main Campus
- Berry, Michelle Annette, Lecturer of Practice, M.Ed., Texas State University
- Bertling, Teresa S, Lecturer, M.A., Univ of the Incarnate Word
- Betancourt, Tania, Assistant Professor, Ph.D., University of Texas at Austin
- Betros, Glynda B, Senior Lecturer, M.S., Texas State University
- Bezner, Janet Rose, Associate Professor, D.P.T., Rocky Mtn Univ of Health Prof
- Bhalodia, Anjali K, Assistant Professor, M.S., Pratt Institute
- Bhardwaj, Vertica, Assistant Professor, Ph.D., University of Tennessee
- Bible, Jon D, Professor Emeritus, J.D., University of Texas at Austin
- Biediger-Friedman, Lesli M, Assistant Professor, Ph.D., Texas Tech University
- Biemer, David J, Lecturer, Ph.D., University of North Texas
- Biggs, Mary Jo, Chair - Professor, Ph.D., Texas AM University
- Bilgin, Enes, Lecturer, Ph.D., Boston University
- Billingsley, Glenna M, Assistant Professor, Ph.D., Texas State University
- Bird, Paula, Senior Lecturer, M.M., Texas State University
- Bishop, Elizabeth A, Associate Professor, Ph.D., University of Chicago
- Bishop, James Matthew, Lecturer, M.Ed., Texas State University
- Bishop, Jessica Lynn, Associate Professor, Ph.D., University of Texas at Austin
- Bishop, Nicholas Joseph, Assistant Professor, Ph.D., Arizona State University
- Bishop, Sherwood, Lecturer, M.S., University of Texas at Austin
- Bitney, Catherine Suzanne, Lecturer, Ph.D., The New School
- Black, Stephen L, Associate Professor, Ph.D., Harvard University

- Blackmon, Terry Lynn, Clinical Professor, Ph.D., Vanderbilt University
- Blacksmith, James Richard, Lecturer, M.S., Texas AM University
- Blair, John P, Professor, Ph.D., Michigan State University
- Blair, John M, Professor, Ph.D., Tulane University
- Blalock, Sarah Martin, Assistant Professor, Ph.D., University of North Texas
- Blanchard-Boehm, Denise, Professor, Ph.D., University of Colorado Boulder
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- Stone, Patricia A, Lecturer, M.A., Univ of Illinois Urbana-Champaign
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- Taylor, Nicole, Associate Professor, Ph.D., University of Arizona
- Taylor, Ruth A, Professor, Ph.D., University of North Texas
- Teal, Jennifer Lynn, Lecturer, M.S., College of Saint Scholastica
- Telang, Nina Kamath, Lecturer, Ph.D., University of Notre Dame
- Temponi, Cecilia C, Professor, Ph.D., University of Texas at Arlington
- Theodoropoulou, Nikoleta, Associate Professor, Ph.D., University of Florida
- Thickstun, Thomas L, Professor, Ph.D., Univ of California-San Diego
- Thomas, Krista A, Senior Lecturer, M.S.R.L.S., Texas State University
- Thomas, Patrick L, Lecturer, Ph.D., Southern Methodist University
- Thorne, Debbie Marie, Associate Provost and Professor, Ph.D., The University of Memphis
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- Tiller, Glynn L, Lecturer, Ph.D., University of Houston
- Tillman, Ellen D, Assistant Professor, Ph.D., Univ of Illinois Urbana-Champaign
- Tillotson, Stephen E, Lecturer, Ph.D., Indiana University Bloomington
- Tipps, Jason Douglas, Clinical Lecturer, MSCD, Texas State University
- Titus, Amber Nikole, Lecturer, M.A., Texas State University
- Todd, Jeffrey Allen, Assistant Professor, J.D., University of Texas at Austin
- Todd, Mark E, Professor, M.F.A., University of Iowa
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- Trahan, Mark Herrick, Assistant Professor, Ph.D., University of Houston
- Trauth, Denise M, President and Professor, Ph.D., University of Iowa
- Travis, Raphael, Associate Professor, D.P.H., Univ of California-Los Angeles
- Treinen, Raymond F, Assistant Professor, Ph.D., Wichita State University
- Trinidad, Jose, Assistant Professor Emeritus, Ph.D., Drexel University
- Trittin, Brian Lynn, Lecturer, D.M.A., University of Arizona
- Trowbridge, Steven Eugene, Lecturer, Ed.D., Texas AM University
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de la Puente, Jose Carlos, Associate Professor, Ph.D., Texas Christian University

duBois, Jennifer Jackson, Assistant Professor, M.F.A., University of Iowa

## President Emeriti (In Perpetuity)

Hardesty, Robert L\*, President Emeritus, (11/1/81-6/13/88)

Supple, Jerome H\*, President Emeritus, (4/1/89-8/31/02)

\* Deceased

## Regents' Professor and University Distinguished Professor Emeriti (In Perpetuity)

Augustin, Byron D, Regents' Professor and University Distinguished Professor of Geography Emeritus, (6/10/78-8/31/10)

Baccus, John T, Regents' Professor and University Distinguished Professor of Biology Emeritus, (9/1/75-8/31/11)

## University Distinguished Professor Emeriti (In Perpetuity)

Williams, M Lee, University Distinguished Professor Emeritus of Communication Studies, (9/1/74-5/31/12)

## Distinguished Professor Emeriti (In Perpetuity)

Abernathy, Elton\*, Distinguished Professor of Communication Studies Emeritus, (9/1/46-7/15/78)

Andrews, Gregory A, Distinguished Professor of History Emeritus, (9/1/88-8/31/09)

Aron, Gary M, Distinguished Professor of Biology Emeritus, (1/15/74-5/31/14)

Avent, Henrietta\*, Distinguished Professor of Health, Physical Education, and Recreation Emerita, (9/1/58-5/31/93)

Barton, James Gabriel\*, Distinguished Professor of Communication Studies Emeritus, (6/1/46-1/15/80)

Bechtol, William\*, Distinguished Professor of Curriculum and Instruction Emeritus, (8/1/77-2/16/98)

Beck, John J, Distinguished Professor of Educational Administration Emeritus and Dean of the College of Education, (7/10/79-8/31/07)

Blanchard, Lydia A, Distinguished Professor of English Emerita, (9/1/83-5/31/07)

Bowles, Ira Renay\*, Distinguished Professor of Music Emeritus, (9/1/47-7/15/86)

Brown, Judith Karen, Distinguished Professor of Social Work Emerita, (9/1/76-7/31/08)

Buie, Tollie R\*, Distinguished Professor of Agriculture Emeritus, (9/1/45-7/31/76)

Bynum, Victoria E, Distinguished Professor of History Emeritus, (9/1/86-1/15/10)

Calsbeek, Franklin A, Distinguished Professor of Health, Physical Education, and Recreation Emeritus, (9/1/74-8/31/95)

Carman, Douglas Gary, Distinguished Professor of Finance and Economics Emeritus, (9/1/78-5/31/01)

Caruana, Louis B, Distinguished Professor of Clinical Laboratory Science Emeritus, (10/9/75-5/31/00)

Cassidy, Patrick E\*, Distinguished Professor of Chemistry and Biochemistry Emeritus, (1/15/71-7/31/10)

Chatfield, John A, Distinguished Professor of Mathematics Emeritus, (9/1/65-5/31/04)

Cook, James R, Distinguished Professor of Computer Information Systems and Quantitative Methods Emeritus, (1/1/74-1/15/12)

Craddock, Emmie\*, Distinguished Professor of History Emerita, (9/1/50-7/15/80)

Davis, Wilbon P, Distinguished Professor of Computer Science Emeritus, (9/1/66-8/31/05)

Early, Grady G, Distinguished Professor of Computer Science Emeritus, (9/1/71-1/15/00)

Ellis, Ann Marie, Distinguished Professor of Sociology Emerita, (9/1/85-1/15/12)

Farlow, Daniel Edward\*, Distinguished Professor of Political Science Emeritus, (6/1/59-5/31/89)

Fitch, John W, Distinguished Professor of Chemistry and Biochemistry Emeritus, (9/1/67-8/31/98)

Fling, Sheila, Distinguished Professor of Psychology Emerita, (9/1/75-5/31/00)

Gravitt, Garland Jack\*, Distinguished Professor of English Emeritus, (9/1/71-5/31/00)

Hannan, Herbert H, Distinguished Professor of Biology Emeritus, (9/1/60-8/31/89)

Hannon, Daniel L\*, Distinguished Professor of Theatre Emeritus, (9/1/81-5/31/98)

Hatcher, Barbara A, Distinguished Professor of Curriculum and Instruction Emeritus, (7/15/75-8/31/08)

Haynes, Martha L. Brunson, Distinguished Professor of English Emerita, (9/1/67-7/15/98)

Hays, Joan C, Distinguished Professor of Dance Emeritus, (9/1/64-5/31/03)

Hazlewood, Donald G, Distinguished Professor of Mathematics Emeritus, (9/1/71-8/31/11)

Henderson, Richard B\*, Distinguished Professor of Political Science Emeritus, (6/1/49-5/31/84)

Houston, Ralph H\*, Distinguished Professor of English Emeritus, (9/1/37-7/31/78)

Irvin, James D, Distinguished Professor of Chemistry and Biochemistry Emeritus, (9/1/73-5/31/10)

Jorgenson, Christabel B, Distinguished Professor of School Psychology Emerita, (9/1/76-7/15/98)

Jorgenson, David E, Distinguished Professor of Sociology Emeritus, (9/1/76-5/31/99)

Joy, Glenn C, Distinguished Professor of Philosophy Emeritus, (9/1/65-5/31/14)

Juel, Martin Oliver\*, Distinguished Professor of Curriculum and Instruction Emeritus, (9/1/50-5/31/81)

Kissler, Betty Jane\*, Distinguished Professor of History Emerita, (9/1/58-8/31/93)

Koke, Joseph Ralph, Distinguished Professor of Biology Emeritus, (9/1/78-7/15/11)

Laird, Edgar S, Distinguished Professor of English Emeritus, (9/1/66-5/31/11)

Larsen, Robert D, Distinguished Professor of Geography Emeritus, (9/1/73-12/31/14)



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Edwards Aquifer Research and Data Center, (6/1/69-8/31/14)

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Communication Emeritus, (9/1/83-5/31/01)

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Norris, William Elmore\*, Distinguished Professor of Biology Emeritus,  
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Northcutt, Robert A, Distinguished Professor of Mathematics Emeritus,  
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Olney, Robert J\*, Distinguished Professor of Management Emeritus,  
(1/16/82-1/31/09)

Patterson, Larry T, Distinguished Professor of Marketing Emeritus,  
(7/15/80-5/31/01)

Patton, Robert E, Distinguished Professor of Health and Human  
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Renfro, Paula C, Distinguished Professor of Journalism and Mass  
Communication Emeritus, (9/1/83-5/31/07)

Rogers, J Lloyd\*, Distinguished Professor of Education Emeritus,  
(6/1/36-8/31/73)

Rose, Francis L, Distinguished Professor of Biology Emeritus,  
(7/16/91-5/31/08)

Schultz, Clarence D\*, Distinguished Professor of Sociology Emeritus,  
(9/1/65-7/31/90)

Shell, Lon R, Distinguished Professor of Agriculture Emeritus,  
(9/1/71-7/15/01)

Skinner, Douglas D, Distinguished Professor of Music Emeritus,  
(9/1/73-8/31/11)

Smith, Milton L, Distinguished Professor of Educational Administration  
Emeritus, (9/1/77-1/15/90)

Stimmell, D Theron, Distinguished Professor of Psychology Emeritus,  
(9/1/69-8/31/08)

Stutts, Mary Ann, Distinguished Professor of Marketing Emeritus,  
(9/1/82-7/15/13)

Swinney, Everette, Distinguished Professor of History Emeritus,  
(9/1/57-7/15/96)

Walts, Robert W\*, Distinguished Professor of English Emeritus,  
(9/1/59-5/31/87)

Webber, Jo A, Distinguished Professor of Curriculum and Instruction  
Emeritus, (9/1/86-5/31/12)

Wheeler, Richard Wade, Distinguished Professor of Psychology Emeritus,  
(9/1/69-5/31/11)

Whiteside, Bobby, Distinguished Professor of Biology Emeritus,  
(9/1/67-5/31/00)

Wilson, Miles S, Distinguished Professor of English Emeritus,  
(9/1/80-8/31/15)

Wilson, R Neal, Distinguished Professor of Art and Design Emeritus,  
(1/23/71-5/31/09)

Yager, Billy J, Distinguished Professor of Chemistry and Biochemistry  
Emeritus, (9/1/62-5/31/01)

Zedler, Empress Young\*, Distinguished Professor of Special Education  
Emerita, (3/1/48-8/31/79)

*\* Deceased*

## Professor Emeriti (Lifetime Designation)

Abrahamson, Royce L, Professor of Management, (9/1/65-8/31/96)

Allen, Judy L, Professor of Family and Consumer Sciences,  
(9/1/77-7/31/16)

Anderson, Robert Ernest, Professor of Physics, (9/1/66-7/31/91)

Battle, Jennifer L, Professor of Curriculum and Instruction,  
(9/1/94-8/31/11)

Bennett, Roger E, Professor of Mass Communication, (7/16/79-8/31/96)

Bible, Jon D, Professor of Finance and Economics, (9/1/85-5/31/16)

Bishop, Bill J, Professor of Accounting, (9/1/71-1/15/90)

Blankmeyer, Eric C, Professor of Finance and Economics,  
(9/1/82-1/15/14)

Boone, Michael D, Professor of Counseling, Leadership, Adult Education  
and School Psychology, (7/16/88-5/31/14)

Brister, Louis E, Professor of Modern Languages, (9/1/66-5/31/05)

Brown, Brock J, Professor of Geography, (9/1/92-5/31/15)

Burke, George C, Professor of Health Administration, (9/1/84-5/31/09)

Burkhardt, John Edward, Professor of Physical Education,  
(8/1/90-5/31/02)

Bynum, James L, Professor of Curriculum and Instruction, (9/1/69-1/31/93)

Canabal, Marie E, Professor of Family and Consumer Sciences, (8/1/06-8/31/12)

Carson, C Dee, Professor of Agriculture, (9/1/77-8/31/01)

Champion, James J, Professor of Spanish, (9/1/74-8/31/00)

Cheatham, Thomas Richard, Professor of Communication Studies, (8/1/78-8/31/14)

Chiodo, Beverly A, Professor of Management, (9/1/68-5/31/11)

Davis, Barbara H, Professor Curriculum and Instruction, (9/1/96-7/15/14)

Davis, Bob, Professor of Agriculture, (8/1/88-5/31/00)

Davis, Robert Alexander, Profesor of Computer Information Systems and Quantitative Methods, (9/1/02-7/31/15)

Day, Frederick A, Professor of Geography, (9/1/88-8/31/14)

Dolezal, Charles H, Professor of Curriculum and Instruction, (1/15/77-5/31/05)

Easter, David C, Professor of Chemistry and Biochemistry, (9/1/93-5/31/16)

Edwards, Sidney W, Professor of Biology, (9/1/56-5/31/85)

Eure, Jack D, Professor of Marketing, (9/1/69-5/31/06)

Evans, Patricia A, Professor of English, (9/1/76-7/31/11)

Eyton, J Ronald, Professor of Geography, 7/16/95-1/15/06)

Fischer, Robert A, Professor of Modern Languages, (9/1/73-8/31/16)

Flaherty, Daniel J, Professor of Accounting, (8/15/97-1/15/06)

Flammang, Robert A, Visiting Professor of Finance and Economics, (9/1/91-5/31/07)

Ford, Ramona L, Professor of Sociology, (9/1/79-5/31/00)

Friedman, BJ, Professor of Family and Consumer Sciences, (9/1/85-5/31/15)

Fulmer, Gilbert E, Professor of Philosophy, (9/1/72-8/31/15)

Galvan, Roberto Arispe, Professor of Modern Languages, (6/1/64-7/15/83)

Gillis, Marguerite K, Professor of Curriculum and Instruction, (9/1/79-5/31/05)

Gordon, Jeffrey L, Professor of Philosophy, (9/1/78-8/31/15)

Gratz, Robert D, Professor of Communication Studies, (9/1/69-12/31/14)

Green, Donald C, Professor of Respiratory Care, (9/1/65-8/31/92)

Greer, Carole, Professor of Art and Design, (9/1/77-1/15/07)

Gross, Dalton H, Professor of English, (9/1/66-5/31/04)

Hager, H Stephen, Professor of Music, (9/1/83-5/31/16)

Hammond, Dicky E, Professor of Curriculum and Instruction, (7/15/80-11/30/97)

Hargett, Sheila A, Professor of Theatre and Dance, (9/1/71-5/31/16)

Harrelson, Donald Biggerstaff, Professor of Criminal Justice, (1/16/71-1/31/87)

Herkimer, Allen G, Professor of Health Administration, (9/1/86-5/31/96)

Hofer, Martha Kay, Professor of Political Science, 9/1/87-5/31/12)

Humphrey, Joseph L, Professor of Accounting, (9/1/72-7/15/09)

Hunnicutt, Garland G, Professor of Management, (9/1/73-5/31/04)

Ingram, Angela J.C., Professor of English, (9/1/79-5/31/04)

Jager, Ronald Burke, Professor of History, (9/1/67-5/31/93)

Johnson, Maurice A, Professor of Health and Human Performance, (9/1/73-6/30/11)

Johnston, Walter Edward, Professor of Computer Information Systems and Quantitative Methods, (9/1/80-7/15/98)

Kalsi, Marie-Louise S, Professor of Philosophy, (1/16/85-5/31/01)

Kimmel, James R, Professor of Geography, (1/16/91-5/31/13)

Koehn, Robert D, Professor of Biology, (9/1/67-5/31/02)

Kolbe, William D, Professor of Art, (7/10/64-5/31/92)

Laman, Jean B, Professor of Art and Design, (9/1/73-5/31/11)

Laman, Jene T, Professor of Family and Consumer Sciences, (7/16/76-5/31/14)

Lewis, Melanie C, Professor of Biology, (9/1/77-1/15/99)

Macey, Susan M, Professor of Geography, (9/1/88-5/31/14)

Martin, Roy B, Professor of Computer Information Systems and Quantitative Methods, (9/1/86-5/31/05)

Matlock, Donald T, Professor of Sociology, (9/1/68-7/31/00)

McCoy, Ingeborg Ruberg, Professor of German, (9/1/70-8/31/98)

McGee, John W, Professor of Finance and Economics, (9/1/80-1/15/14)

Michalk, Victor E, Professor of Physics, (9/1/68-5/31/07)

Middlebrook, Bill J, Professor of Management, (9/1/83-7/15/13)

Miller, Damon J, Professor of Educational Administration and Psychological Services, (9/1/67-8/31/95)

Montondon, Lucille M, Professor of Accounting, (9/1/89-8/31/16)

Moore, Betty J, Professor of Curriculum and Instruction, (9/1/73-5/31/89)

Moore, Nelwyn B, Professor of Family and Consumer Sciences, (9/1/63-5/31/00)

Morgan, George W, Professor of Computer Information Systems and Quantitative Methods, (1/16/82-5/31/04)

Morris, Roselyn E, Professor of Accounting, (9/1/93-8/31/16)

Neely, James Bert, Professor of Music, (9/1/81-8/31/09)

Nelson, David C, Professor of Journalism and Mass Communication, (9/1/88-7/31/15)

Nicosia, Ralph Timothy, Professor of Curriculum and Instruction, (9/1/71-7/15/98)

Oles, Henry J, Professor of Psychology, (9/1/71-1/15/92)

Oliver, Joseph R, Professor of Accounting, (9/1/80-5/31/04)

Perry, Reeves B, Professor of Chemistry and Biochemistry, (9/1/66-1/15/99)

Pierson, Michael J, Professor of Occupational Education, (1/16/75-7/15/06)

Raffeld, Paul C, Professor of Psychology, (9/1/84-1/15/06)

Randolph, Robert M, Professor of English, (9/1/85-1/15/05)

Rast, Walter, Professor of Biology, (6/1/01-8/31/12)

Reeves-Marquardt, Dona, Professor of Modern Languages, (9/1/61-5/31/94)

Riepe, Russell C, Professor of Music, (9/1/72-5/31/13)

Ronan, Clifford J, Professor of English, (9/1/72-5/31/10)

Row, Brian G, Professor of Art and Design, (9/1/77-1/15/14)

Rudzinski, Walter E, Professor of Chemistry and Biochemistry, (9/1/79-1/15/15)

Ruiz, Maria Paez de, Professor of Modern Languages, 5/10/78-1/15/98)

Rydl, Glen M, Professor of Agriculture, (9/1/68-5/31/01)

Salem, Philip J, Professor of Communication Studies, (9/1/74-5/31/16)

Scribner, Alicia P, Professor of Educational Administration and Psychological Services, (9/1/93-5/31/05)

Short, Alvin P, Professor of Sociology, (9/1/71-5/31/99)

Singh, Sukhjit, Professor of Mathematics, (9/1/82-1/15/13)

Sissom, Stanley L, Professor of Biology, (9/1/67-1/15/97)

Smith, Bruce, Professor of Journalism and Mass Communication, (4/13/00-8/31/15)

Smith, Jean Amelia, Professor of Health, Physical Education, and Recreation, (9/1/53-1/31/84)

Spellmann, John W, Professor of Mathematics, (7/15/80-7/31/12)

Stea, David, Professor of Geography, (7/16/97-8/31/06)

Stephens, Elizabeth Campbell, Professor of Curriculum and Instruction, (9/1/96-8/31/11)

Stephenson, Stanley D, Professor of Computer Information Systems and Quantitative Methods, (9/1/81-8/31/04)

Stouffer, Willard B, Professor of Political Science, (9/1/70-5/31/12)

Stuessy, Joe, Professor of Music, (8/1/03-8/31/07)

Stutzman, James R, Professor of Finance and Economics, (9/1/88-8/31/10)

Suckling, Philip W, Professor of Geography, (7/1/05-5/31/15)

Sullivan, Alfred B, Professor of Political Science, (1/15/70-1/15/12)

Summers, Jim W, Professor of Health Administration, (9/1/88-5/31/09)

Taylor, Mary Agnes, Professor of English, (9/1/67-5/31/91)

Thomas, Naymond, Professor of Music, (9/1/87-8/31/14)

Trepagnier, Barbara, Professor of Sociology, (9/1/96-5/31/11)

Tuff, Donald W, Professor of Biology, (9/1/63-5/31/98)

Wayment, Stanley G, Professor of Mathematics, (9/1/86-5/31/12)

Weinberger, George M, Professor of Political Science, (9/1/73-5/31/10)

Whalin, John Robert, Professor of Music, (9/1/64-1/15/01)

Wheeler, Larry J, Professor Curriculum and Instruction, (9/1/81-8/31/16)

Whitenberg, David Calvin, Professor of Biology, (9/1/65-7/31/93)

Williams, Sue W, Professor of Family and Consumer Sciences, (6/1/85-8/31/14)

Williamson, Bobby L, Professor of Curriculum and Instruction, (9/1/66-5/31/93)

Willoughby, J Michael, Professor of Counseling, Leadership, Adult Education and School Psychology, (9/1/74-8/31/13)

Wilson, James A, Professor of History, (9/1/70-7/15/01)

Wolverton, Byron A, Professor of Music, (9/1/64-1/15/98)

Woolsey, Timothy D, Professor of Music, (9/1/75-5/31/08)

Wortham, Marshall Ross, Professor of Art and Design, (9/1/65-8/31/98)

Wright, Lloyd S, Professor of Psychology, (9/1/74-5/31/00)

Yeary, James D, Professor of Accounting, (9/1/74-1/15/95)

Young, Willard C, Professor of Biology, (9/1/67-5/31/90)

Zunker, Vernon G, Professor of Education, (9/1/68-8/31/92)

## Associate Professor Emeriti (Lifetime Designation)

Abel, Burt Michael, Associate Professor of Agriculture, (9/1/75-7/15/02)

Beck, Shirley S, Associate Professor of Curriculum and Instruction, (1/16/87-5/31/97)

Benjamin, Caroline P, Associate Professor of Biology, (8/1/70-1/15/01)

Biedermann, Sue E, Associate Professor of Health Information Management, (9/1/80-8/31/14)

Boone, Joy L, Associate Professor of Health Services and Research, (9/1/81-7/31/98)

Borm, Alfred Ervin, Associate Professor of Mathematics, (1/15/65-1/31/93)

Brieger, Alton Gerhardt, Associate Professor of History, (7/1/64-8/31/85)

Brunner, Peggy Gregory, Associate Professor of Music, (9/1/68-5/31/01)

Carns, Michael R, Associate Professor of Educational Administration and Psychological Services, (6/1/85-1/15/08)

Champagne, Gerald B, Associate Professor of Agriculture, (9/1/55-7/15/84)

Compton, Ross D, Associate Professor of Chemistry and Biochemistry, (9/1/66-7/15/04)

Connolly, Colleen M, Associate Professor of Counseling, Leadership, Adult Education, and School Psychology, (1/16/99-5/31/14)

Davis, Charles H, Associate Professor of Quantitative Methods, (9/1/83-7/15/01)

Dunn, Margaret E, Associate Professor of Curriculum and Instruction, (7/24/78-3/31/01)

Fitch, Suzanne P, Associate Professor of Communication Studies, (9/1/67-1/15/98)

Fleuriet, Cathy A, Associate Professor of Communication Studies, (9/1/87-8/31/12)

Gaddis, Marilyn T, Professor of Curriculum and Instruction, (9/1/78 - 8/31/94)

Goodwin, Marilyn Wilson, Associate Professor of Curriculum and Instruction, (1/16/98-7/15/14)

Hall, Elizabeth Ann, Associate Professor of Curriculum and Instruction, (9/1/90-6/30/03)

Hankins, June Chase, Associate Professor of English, (9/1/84-5/31/10)

Harkins, Cade J, Associate Professor of Respiratory Care, (9/1/83-8/31/04)

Hazlewood, Carol, Associate Professor of Computer Science, (9/1/86-8/31/11)

Helm, Raymond, Associate Professor of Agriculture, (9/1/67-8/31/85)

Henry, William Gammon, Associate Professor of Curriculum and Instruction, (9/1/67-5/31/90)

Hoffmann, Keith F, Associate Professor of Physical Education, (9/1/63-5/31/98)

Hudiburg, Howard B, Associate Professor of Music, (1/16/85-5/31/14)

Hughes, Billie E, Associate Professor of Counseling and Guidance, (9/1/67-8/31/87)

Jackson, William R, Associate Professor of Physics, (9/1/67-5/31/00)

Keeffe, Michael J, Associate Professor of Management, (9/1/86-5/31/16)

Kostroun, Phillip W, Associate Professor of Clinical Laboratory Science, (11/10/75-1/15/08)

Leavell, Judy A, Associate Professor of Curriculum and Instruction, (9/1/93-8/31/06)

Lien, Violetta F, Clinical Associate Professor of Curriculum and Instruction, (9/1/00-5/31/11)

Mandeville, Thomas, Associate Professor of Curriculum and Instruction, (9/1/91-7/15/03)

McCabe, Thomas F, Associate Professor of Computer Science, (9/1/80-1/15/05)

McLaren, John A, Associate Professor of Criminal Justice, (1/16/80-8/31/15)

Merryman, Sandra S, Associate Professor of Psychology, (9/1/70-1/31/07)

Mooney, Robert T, Associate Professor of Health Administration, (9/1/75-7/15/12)

Moore, Joe M, Associate Professor of Curriculum and Instruction, (9/1/68-1/15/98)

Newberry, William C, Associate Professor of Curriculum and Instruction, (9/1/66-1/15/97)

Ogden, Robert D, Associate Professor of Computer Science, (9/1/83-7/15/04)

Polk, James E, Associate Professor of Music, (9/1/90-5/31/06)

Radcliffe, Richard, Associate Professor of Curriculum and Instruction, (9/1/01-8/31/13)

Ratliff, Ernest F, Associate Professor of Mathematics, (9/1/71-5/31/07)

Reese, Marianne, Associate Professor of Educational Administration and Psychological Services, (6/1/92-1/31/06)

Renfro, Robert Bruce, Associate Professor of Journalism and Mass Communication, (9/1/85-5/31/06)

Resta, Virginia Kay, Associate Professor of Curriculum and Instruction, (9/1/91-7/31/16)

Ross, John K, Associate Professor of Management, (9/1/80-7/15/12)

Sawey, Ronald M, Associate Professor of Computer Science, (9/1/76-5/31/09)

Schmidt, Darlene H, Associate Professor of Health, Physical Education, and Recreation, (9/1/68-5/31/05)

Scholwinski, Edward J, Associate Professor of Educational Administration and Psychological Services, (9/1/83-7/15/06)

Scott, Charlotte Robinson, Associate Professor of Health, Physical Education, and Recreation, (9/1/68-1/31/91)

Smith, Howard G, Associate Professor of Accounting, (9/1/86-7/15/03)

Stalnaker, Sylvia D, Associate Professor of Family and Consumer Sciences, (1/15/73-1/15/98)

Starling, Betty Ross Jones, Associate Professor of English,  
(9/1/67-1/15/94)

Thompson, Glenda Sue, Associate Professor of Family and Consumer  
Sciences, (9/1/84-5/31/07)

Tijerina, Mary S, Associate Professor of Social Work, (1/16/01-1/15/14)

Treanor, Betty M, Associate Professor of Family and Consumer Sciences,  
(9/1/80-5/31/04)

Upchurch, Marian L, Associate Professor of Health Services and  
Research, (9/1/78-7/31/01)

Williams, Tommy C, Associate Professor of Art and Design,  
(9/1/70-5/31/06)

Windham, Billy L, Associate Professor of Technology, (9/1/63-5/31/99)

Wood, Juli I, Associate Professor of Music, (9/1/02-8/31/13)

Wright, Betty Lee, Associate Professor of Health, Physical Education, and  
Recreation, (9/1/69-8/31/85)

## Assistant Professor Emeriti (Lifetime Designation)

Archer, Benjamin Francis, Assistant Professor of English,  
(9/1/57-7/31/93)

Borchers, Ralph E, Assistant Professor of Art and Design,  
(9/1/87-1/15/06)

Braffett, Max, Assistant Professor of English, (9/1/62-5/31/97)

Evans, Kenneth A, Assistant Professor of Mathematics, (9/1/67-8/31/96)

Farr, Gerald G, Assistant Professor of Biology, (9/1/69-8/31/14)

Finch, Catherine Howard, Assistant Professor of Computer Information  
Systems and Administrative Sciences, (9/1/53-5/31/82)

Goldsmith, James M, Assistant Professor of Technology,  
(2/1/73-5/31/97)

Granato, Nancy O, Assistant Professor of Family and Consumer Sciences,  
(9/1/83-7/15/09)

Hastedt, Laura W, Assistant Professor of Computer Information Systems  
and Administrative Sciences, (9/1/57-1/15/85)

Henson, Verna, Assistant Professor of Criminal Justice,  
(7/16/94-1/15/13)

Henson, Verna, Assistant Professor of Criminal Justice),  
(7/16/94-1/15/13)

Heudier, Jean-Pierre, Assistant Professor of Modern Languages,  
(9/10/72-5/31/96)

Laws, Luba S, Assistant Professor of Modern Languages,  
(9/1/62-5/31/94)

Lee, Daniel H, Assistant Professor of Mathematics, (9/1/67-5/31/06)

McCall, Carolyn A, Assistant Professor of Curriculum and Instruction,  
(6/1/74-5/31/12)

McDonald, Vernon Shinn, Assistant Professor of Health, Physical  
Education, and Recreation and Asst Athletic Director, (9/1/53-5/31/88)

Reeh, Albert F, Assistant Professor of Health, Physical Education, and  
Recreation, (9/1/60-5/31/91)

Stein, Marlowe Robin, Assistant Professor of Music, (8/1/98-5/31/14)

Thompson, Robert B, Assistant Professor of English, (9/1/70-5/31/99)

Tolbert, Evelyn Osman, Assistant Professor of English, (9/1/70-5/31/93)

Trinidad, Jose, Assistant Professor of Finance and Economics,  
(9/1/94-7/15/13)

Webb, Frances M, Assistant Professor of Music, (6/1/69-5/31/06)

Yarchuska, John A, Assistant Professor of Technology, (2/1/53-6/30/92)

## Instructor Emeriti (Lifetime Designation)

Barrett, Patricia Ann, Instructor of Physical Education, (9/1/71-7/15/98)

Kinlund, Neal W, Instructor of Health, Physical Education, and Recreation,  
(9/1/73-7/30/06)

McGee, Thomas, Instructor of Counseling Center/Guidance Counseling,  
(9/1/71-8/31/86)

Shrader, Robert, Instructor of Mass Communication, (9/1/77-8/31/01)

Tucker, Kenneth W, Instructor of Curriculum and Instruction,  
(9/1/75-6/30/04)

## Retired Faculty (Lifetime Designation)

Alfau, Antonio de Jesus, Lecturer of Modern Languages,  
(1/16/08-7/31/10)

Anderson, Mary A, Senior Lecturer of Curriculum and Instruction,  
(9/1/99-5/31/13)

Armentrout, Dede, Senior Lecturer of Biology, (8/1/02-5/31/08)

Atchison, Alan C, Senior Lecturer of History, (9/1/96-5/31/16)

Augustin, Harriet M, Lecturer of Management, (9/1/79-5/31/05)

Barclay, Stephen L, Lecturer of Computer Information Systems and  
Quantitative Methods, (9/1/88-5/31/04)

Beebe, Susan J, Senior Lecturer of English, (7/16/93-5/31/14)

Belchic, Albert M, Assistant Professor of Health Administration,  
(1/16/75-1/31/90)

Bishop, Janice P, Senior Lecturer of Theatre and Dance, (9/1/91-5/31/14)

Blanco, R Ivan, Clinical Assistant Professor of Management,  
(9/1/04-5/31/15)



Bosworth, Anthony B, Senior Lecturer of Biology, (9/1/08-5/31/11)

Brice, Clare C, Instructor of Physical Education, (9/1/86-1/31/05)

Brown, Claudia Shroyer, Senior Lecturer of Psychology, (9/1/02-12/31/12)

Cancino, Jeffrey M, Associate Professor of Criminal Justice, (6/1/05-4/30/16)

Carpenter, David N, Senior Lecturer of Psychology, (1/16/91-5/31/14)

Coleman, Margaret C, Lecturer of Curriculum and Instruction, (9/1/03-5/31/07)

Crawford, Priscilla Ann, Senior Lecturer of Curriculum and Instruction, (7/16/98-5/31/15)

Critchfield-Jones, Nancy, Lecturer of Communication Studies, (9/1/86-5/31/05)

Curtin, Patsy J, Senior Lecturer of Curriculum and Instruction, (9/1/94-5/31/13)

Davis, Jean F, Senior Lecturer of Mathematics, (1/16/84-5/31/15)

De la Colina, Maria G, Associate Professor of Curriculum and Instruction, (8/25/03-1/15/15)

Doescher, Russell L, Senior Lecturer of Physics, (9/1/88-5/31/16)

Dombroski, Maria Leonor, Senior Lecturer of Curriculum and Instruction, (9/1/00-5/31/12)

Dorrycott, Joyce W, Lecturer of Political Science, (9/1/77-5/31/94)

Drobeck, Bruce, Senior Lecturer of Family and Consumer Sciences, (9/1/10-5/31/16)

DuPont, Ann M, Senior Lecturer of Family and Consumer Sciences, (7/16/08-7/31/16)

Farr, Anna V, Senior Lecturer of Curriculum and Instruction, (9/1/82-8/31/11)

Fields, Tina T, Associate Professor of Health Administration, (1/16/08-5/31/15)

Fink, Cary M, Associate Professor of Music, (6/1/88-5/31/16)

Fleming, Patricia A, Senior Lecturer of Music, (9/1/02-5/31/06)

Friedman, Stan, Senior Lecturer of Psychology, (9/1/87-5/31/15)

Garcia, John L, Associate Professor of Counseling, Leadership, Adult Education and School Psychology, (1/20/92-8/31/13)

Garstka, John E, Associate Professor of Family and Consumer Sciences, (1/1/82-8/31/05)

Grimes, Melissa J, Lecturer of Art and Design, (9/1/98-1/15/12)

Haddix, F Furman, Assistant Professor of Computer Science, (9/1/00-8/31/07)

Harkins, Betty L, Senior Lecturer of Occupational, Workforce and Leadership Studies, (10/26/92-5/31/15)

Henton, David V, Clinical Assistant Professor of Social Work, (1/16/95-12/31/15)

Hermsmeier, Glen E, Senior Lecturer of Mathematics, (1/16/96-1/15/12)

Hickman, Ada, Lecturer of Curriculum and Instruction, (6/1/90-8/31/02)

Hickman, Elmer J, Assistant Professor of Accounting, (9/1/78-8/31/93)

Ingram, Ralph M, Senior Lecturer of History, (1/16/92-1/15/13)

Johannessen, Bertha Gloria, Professor of Curriculum and Instruction, (8/1/09-1/15/16)

Johnson, Charles M, Associate Professor of Health Services Research, (8/16/76-1/15/06)

Johnson, Herbert E, Lecturer of Finance and Economics, (1/1/82-5/31/84)

Johnson, Marion A, Lecturer of Health, Physical Education, and Recreation, (9/1/82-5/31/06)

Khouri, Yvonne George, Associate Professor of Health Administration, (1/16/78-1/15/01)

Knox, Martha E, Associate Professor of Health Services Research, (9/1/77-8/31/05)

Kopecky, Helen P, Lecturer of Finance and Economics, (8/1/81-5/31/85)

Krabbenhof, Eloiese, Senior Lecturer of Art and Design, (9/1/03-5/31/16)

Labay, JoAnn, Senior Lecturer of English, (9/1/88-5/31/15)

Latson, Harvey H, Senior Lecturer of Health, Physical Education, and Recreation, (6/1/01-5/31/08)

Lawrence, Thomas M, Senior Lecturer of Physics, (1/16/03-5/31/09)

Love, Marvin Dan, Senior Lecturer of Communication Studies, (9/1/97-5/31/07)

Lugones, Nestor A, Assistant Professor of Modern Languages, (9/1/00-7/15/05)

Mallard, Arch R, Professor of Communication Disorders, (8/29/79-8/31/06)

Mann, Robert, Senior Lecturer of Journalism and Mass Communication, (1/16/05-5/31/10)

Margerison, Patricia S, Senior Lecturer of English, (9/1/84-7/31/11)

Martin, Gordon E, Professor of Curriculum and Instruction, (1/1/81-1/15/16)

Martinez, Pablo, Associate Professor of Criminal Justice, (9/1/02-8/31/14)

McGhee, Marla W, Associate Professor of Educational Administration and Psychological Services, (1/16/99-1/15/08)

Melbye, Floyd Jerome, Professor of Anthropology, (9/1/04-8/31/09)

Michell, Monica A, Senior Lecturer of Theatre and Dance, (9/1/89-7/31/15)

Miley, Sharon C, Senior Lecturer of Sociology, (9/1/90-5/31/10)

Milhomme, Albert J, Professor of Marketing, (9/1/93-8/31/06)

Moini, Mehdi, Senior Lecturer of Chemistry and Biochemistry,  
(11/1/08-6/30/10)

Moreau, John A, Senior Lecturer of Health and Human Performance,  
(1/16/83-5/31/14)

Murphy, Maxwell C, Lecturer of Criminal Justice, (1/16/88-5/31/95)

Neunhoffer, Charles N, Lecturer of Accounting, (2/10/86-1/15/00)

Noble, Dorinda N, Professor of Social Work, (8/1/01-5/31/16)

Noone, John B, Assistant Professor of Health Administration,  
(8/23/76-7/31/94)

O'Kelley, Erin M, Clinical Assistant Professor of Health, Physical  
Education, and Recreation, (6/1/01-1/31/09)

Patschke, Ronald B, Lecturer of Mathematics, (9/1/04-5/31/15)

Perro, Jo Ann M, Senior Lecturer of Modern Languages, (9/1/99-5/31/13)

Perry, Robert C, Lecturer of Modern Languages, (9/1/79-8/31/95)

Petray, Thomas Earl, Lecturer of Curriculum and Instruction,  
(9/1/13-5/31/13)

Pevoto, Barbara, Associate Professor of Occupational Education,  
(8/1/99-7/15/07)

Pohl, Patsy R, Senior Lecturer of English, (9/1/79-7/15/09)

Pulver, Robert E, Assistant Professor of Mass Communication,  
(9/1/88-5/31/94)

Rahe, Charles Hardin, Professor of Agriculture, (12/1/98-1/15/15)

Rainey, Tammy R, Senior Lecturer of Health and Human Performance,  
(7/16/05-5/31/15)

Rast, Claudia, Lecturer of Biology, (1/16/02-5/31/12)

Roaten, Gail K, Associate Professor of Counseling, Leadership, Adult  
Education and School Psychology, (9/1/06-8/31/13)

Ross, Sherry A, Senior Lecturer of Accounting, (1/16/00-5/31/13)

Russell, Elizabeth M, Clinical Assistant Professor of Family and  
Consumer Sciences, (8/25/03-8/31/15)

Scow, Roger D, Lecturer of Management, (9/1/83-5/31/97)

Seidman, Stephen B, Professor of Computer Science and Dean of the  
College of Science and Engineering, (8/1/09-5/31/15)

Sellers, Diana E, Assistant Professor of Developmental Education,  
(8/1/73-1/15/00)

Severance, Robert L, Senior Lecturer of Accounting, (9/1/01-7/15/15)

Smith, James D, Lecturer of Criminal Justice, (9/1/75-9/1/88)

Spencer, David, Senior Lecturer of Criminal Justice, (9/1/01-8/31/12)

Stedman, Deborah, Lecturer of Educational Administration and  
Psychological Services, (1/16/01-1/31/09)

Stein, Richard, Senior Lecturer of Theatre and Dance, (9/1/98-8/31/13)

Stone, Patricia A, Senior Lecturer of Theatre and Dance, (9/1/81-5/31/14)

Stouder, Nial Eugene, Professor of Physics, (2/15/99-2/28/06)

Thomas, Linda D, Associate Professor of Health Information  
Management, (9/1/92-5/31/05)

Thompson, Steven C, Professor of Accounting, (9/1/04-12/31/14)

Till, Leon G, Lecturer of Management, (1/16/87-5/31/97)

Toosi, Mohammedali, Instructor of Mathematics, (1/16/87-1/15/95)

Vittrup, John B, Associate Professor of Technology, (9/1/87-5/31/91)

Walsh, Francis E, Associate Professor of Journalism and Mass  
Communication, (9/1/04-8/31/16)

Wilson, Barbara D, Senior Lecturer of Occupational, Workforce, and  
Leadership Studies, (10/17/88-8/31/16)

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- Agriculture (Teacher Certification in Agriculture, Food and Natural Resources, Grades 6-12), B.S.A.G. (<https://next.mycatalog.txstate.edu/undergraduate/applied-arts/agriculture/agriculture-teacher-certification-science-technology-grades-612-bsag>)
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- Agriculture Animal Science (Integrated Ranch and Natural Resources Management Specialization), B.S.A.G. (p. 97)
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- English (Film Emphasis), B.A. (p. 361)
- English (Single Field Teacher Certification in English Language Arts and Reading, Grades 7-12), B.A. (p. 363)
- English (Two Fields Teacher Certification in English Language Arts and Reading, Grades 7-12), B.A. (p. 364)
- English (Writing and Rhetoric Emphasis), B.A. (p. 366)
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- Exercise and Sports Science (Pre-Physical Therapy Concentration), B.E.S.S. (p. 193)
- Exercise and Sports Science (Teacher Certification in Physical Education, Grades EC-12), B.E.S.S. (p. 195)

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- Dance (Two Fields Teacher Certification in Dance, Grades 8-12), B.F.A. (p. 306)
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- Health and Fitness Management, B.E.S.S. (<https://next.mycatalog.txstate.edu/undergraduate/education/health-human-performance/health-fitness-management-business-administration-minor-bess>)
- Health and Wellness Promotion (Teacher Certification in Health, Grades EC-12), B.H.W.P. (p. 198)
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- History (Teacher Certification in Social Studies, Grades 7-12: Geography Minor and Political Science Third Field), B.A. (p. 410)
- History (Teacher Certification in Social Studies, Grades 7-12: Political Science Minor and Geography Third Field), B.A. (p. 413)
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- Interdisciplinary Studies (Sustainability Studies), M.A.I.S. (p. 1091)
- Interdisciplinary Studies (Sustainability Studies), M.S.I.S. (p. 1093)
- Interdisciplinary Studies (Teacher Certification in Bilingual Generalist-Spanish, Grades EC-6), B.S. (p. 171)
- Interdisciplinary Studies (Teacher Certification in English as a Second Language Generalist, Grades EC-6), B.S. (p. 172)
- Interdisciplinary Studies (Teacher Certification in English, Language Arts, Reading and Social Studies, Grades 4-8), B.S. (p. 173)
- Interdisciplinary Studies (Teacher Certification in Generalist, Grades 4-8), B.S. (p. 175)
- Interdisciplinary Studies (Teacher Certification in Mathematics and Science, Grades 4-8), B.S. (p. 177)
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